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Programmer's Paradise

A Division of Hudson Technologies, Inc.

42 River Street, Tarrytown, NY 10591
914-332-4548



Dear C Programmer:

Programmer's Paradise always brings you the BEST software at the best prices! Now, Paradise has teamed up with some of the best C developers to bring you even greater value during our Spring Software Sale on Turbo C from Borland and related libraries from Blaise, Metagraphics and Roundhill.

As you already know, **Turbo C** is a technically superior C compiler. The latest version 1.5 offers an enhanced library of the highest presentation-quality graphics in the industry and the spectacular graphics are just part of the brand-new features.

Even the critics are impressed! And here's what they're saying...

"Behind the beauty of the Turbo C environment stands the brawn of a full-fledged compiler."

Marty Franz, PC Tech Journal

"Taking compilers and program development tools into the next generation is Borland International's Turbo C, a package that will stun you with in-RAM compilations that operate at warp speed...a 21st century compiler at a preinflation 1967 price. Is it any wonder that Turbo C was included in the Best of 1987?"

Richard Hale Shaw, PC Magazine

"Turbo C represents an all-new price-performance level--one that will be hard to match, much less beat."

Stephen Davies, PC Magazine

"Turbo C showed excellent compiler speeds, good overall benchmark scores, and extraordinary floating-point performance."

Scott Ladd, Micro Cornucopia

"All in all, Turbo C is challenging Microsoft's C supremacy, and winning."

Will Fastie, PC WEEK

Interested in really streamlining your productivity? Combine Turbo C with any or all of these excellent libraries and you'll have the programming environment you need. Read on.

Blaise Turbo C TOOLS is tailored specifically for Borland's Turbo C, taking advantage of Turbo C's strengths while not duplicating functions found in Turbo C's own function library. Metagraphics TurboWINDOW/C provides you with an expanded set of graphic drawing functions, plus the added functionality and performance required for designing multi-window desktop display applications. Roundhill's PANEL/TC provides the tools you need for building an interactive application using Turbo C. This interactive screen design tools are the fastest way to get your application screens layed out and tested. All of these libraries are designed to work with Turbo C giving you all the tools you need for your programming environment.

Be sure to check out Paradises Special Spring Offers listed below:

	<u>List Price</u>	<u>Our Price</u>
Borland Turbo C	\$100	\$69
Blaise Turbo C TOOLS	\$129	\$101
Metagraphics TurboWINDOW/C	\$100	\$80
Roundhill PANEL/TC	\$129	\$99

SAVE! **SPECIAL SPRING BUNDLES** SAVE!

	<u>List Price</u>	<u>Our Price</u>	<u>Special Offer</u>
Turbo C & Turbo C TOOLS	\$229	\$170	\$159
Turbo C & TurboWINDOW/C	\$200	\$149	\$139
Turbo C & PANEL/TC	\$229	\$168	\$159
Complete Package (all four)	\$458	\$349	\$299

For your BEST VALUE order the complete library package.

If you still can not choose between these excellent offerings than be sure to call one of our **knowledgeable sales reps** for help in solving your dilemma. As always Programmer's Paradise promises you **immediate shipment** on only the **latest versions** at the **best prices**. We've also enclosed a copy of our latest Programmer's Paradise catalog, where you'll find hundreds of products at our regular low prices.

Take advantage of this Spring Software Sale today! All offers are good through May 31st,1988. Call us at **1-800-445-7899** or in NY at **914-332-4548**.

Sincerely,



Susan Robertson

Programmer's
Paradise

42 River Street, Tarrytown, NY 10591

Programmer's
Paradise™

Catalog V2.2



Dear Programmers,
I've discovered Paradise! Programmer's Paradise, the largest dealer of program development software for personal computers, is the one source that has all the software a programmer could want.

The guaranteed lowest prices. Programmer's Paradise will match any nationally advertised price -- so you know you're always getting the best possible deal.

All the latest versions. Programmer's Paradise ships only the latest versions of the newest and most popular programs -- even ones I haven't heard about yet (mail bottles are slow).

Huge inventory and immediate shipment. Programmer's Paradise has the largest inventory of software development tools in the industry, with over 500 programs in stock. I can just pick-up the phone, call toll-free and get my new program the very next day.

Knowledgeable sales staff. The people at Programmer's Paradise don't just take orders. They give great advice on the programs that are right -- and wrong -- for me.

Special Orders. Even hard-to-find programs aren't hard to find at Programmer's Paradise. They can track down just about anything -- OS/2, MS/PC-DOS, XENIX, UNIX, Macintosh and even Amiga and Atari software.

30-day money-back guarantee. At Programmer's Paradise, you don't have to live with a program you don't like. Just send it back within 30 days for a full refund. (Ask for details when you order -- some manufacturers won't take the package back if the disk seals are broken.)

Aloha



Greetings from Paradise

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Programmer's
Paradise™

Borland's Turbo C is the C compiler everybody has been waiting for

- **Compiles over 13,000 lines per minute**
- **Optimized code generation**
- **Automatic error tracking**
- **Easy-to-use full-screen editor**
- **Fully integrated Linker and Make utilities**
- **ANSI C compatible**
- **Extensive graphics support**

Turbo C is the C environment you've been waiting for. Whether you're an ardent and advanced user of this powerful language or a novice just testing the waters, Turbo C is the right choice.

Longtime users will appreciate Turbo C's incredible compilation speed and quality of the generated code; beginners will like the friendly user interface. Both will profit from the overall program design that makes C make sense.

Versatility

- ☑ **Six distinct memory models** (tiny, small, medium, compact, large, and huge) provide flexibility in selecting just the right memory configuration for your program; choose any combination of small or large code and data.
- ☑ **Supports the upcoming ANSI C standard** description. Includes extensions for mixed-model and mixed-language programming, designed to use all the capabilities of your IBM® PC or compatible. Turbo C fully implements Kernighan-Ritchie C; it's also compatible with Microsoft® C and most UNIX® implementations.
- ☑ **Automatic 8087 math coprocessor chip support.** Turbo C does not require the 8087 chip to operate, but it does take full advantage of the chip's superior calculating abilities when it's present in your machine. Emulates 8087 routines when the chip is not present.
- ☑ **Can compile, link, and run from within the integrated environment** (for optimal development) or from a standard DOS command line.
- ☑ **Mixed-model programming** lets you take full advantage of IBM PC architecture without paying the price.
- ☑ **Mixed-language programming** lets you select alternate calling conventions (Pascal or C) for specified functions or whole files.

Power

- ☑ **Extensive libraries** (over 400 functions) including ANSI extensions and IBM PC specific functions for direct access to MS-DOS and your PC's hardware.
- ☑ **Graphics library:** create your own color graphics and animation with the Borland Graphics Interface, with over 70 functions for drawing, filling, screen management, multiple-font text output, and bit-level image handling. Supports VGA, EGA, CGA, MCGA, Hercules, ATT400, and PC3270 video graphics adapters.
- ☑ **Extended text screen support** gives you color control for brilliant text displays, high performance text output, screen management functions, and windows.
- ☑ **Low-level hardware access**, with inline assembly code (such as `asm mov ax,x`) and pseudo-variables—names for machine registers—for direct interface with hardware registers (such as `_AX=x`).
- ☑ **Two options for floating-point math:** 8087 support and software emulation.
- ☑ **Type checking** using ANSI-defined function prototypes eliminates cross-module errors that C is prone to.
- ☑ **Includes stand-alone utilities for added power and convenience.**

TLINK	DOS-compatible Turbo linker
TLIB	Turbo Librarian for managing your object module libraries
MAKE	for automated building of your program files
GREP	Borland's very fast version of the UNIX file-search utility
TCINST	Customization program for changing the integrated environment's defaults and rebinding editor keystrokes.

- ☑ **Built-in Lint** provides numerous levels of error checking. You can specify which warnings appear at compile time.
- ☑ **Interfaces with Turbo Pascal 4.0 and Turbo Prolog.**
- ☑ **Numerous sample programs** including:
 - MicroCalc—a complete spreadsheet
 - Powerful graphics demos
 - Turbo Prolog interface demo

Simplicity

- ☑ **Logical design** aided by windows, pull-down menus, and helpful status lines makes it easy to get around in Turbo C. You can write, compile, debug, and run your programs without leaving the development environment.
- ☑ **Borland's famous integration of text editor and program compiler** has never been so convenient or powerful. The editor uses windows and standard control-key commands to make program input a breeze. And editor command keys are fully customizable.
- ☑ **Automatic error tracking.** Compile your file. If it contains errors, the compiler lists them all in the Message window. As you step through the error messages, the editor tracks the errors in the corresponding source file and places the cursor at the offending line in the source. Fix the errors and compile again. It's that easy.
- ☑ **Context-sensitive on-screen help plus mini online reference.** At the touch of a key, you can get explanations of unfamiliar terms, concepts, or library routines. A great learning and reference aid.
- ☑ **Documentation set** includes User's Guide and Reference Guide; both are written to guide the novice and provide quick reference for the pro.

TURBO C Technical Specifications

PROGRAMMING FEATURES

COMPILER

- One-pass compiler generates .OBJ files. Programs can also run from inside the development environment.

INTERACTIVE EDITOR

- Full-screen text editor generates ASCII text files and interacts with the compiler. If the compiler detects a syntax error, the editor automatically positions the cursor on the error in the source code.

ANSI C SUPPORT

- Includes the following extensions: **const**, **volatile**, **enum**, **void**, **signed char** type, ANSI compatible preprocessor, function prototypes, and structure assignment.

LANGUAGE EXTENSIONS

- New C keywords for mixed-language and mixed-model programming (**asm**, **cdecl**, **pascal**, **interrupt**, **near**, **far**, **huge**).

GRAPHICS LIBRARY

- Over 70 graphics functions, including text output in multiple fonts; supports VGA, EGA, CGA, Hercules, ATT400, and others. Compatible with Turbo Pascal 4.0.

EXTENDED TEXT SCREEN SUPPORT

- New functions provide very high performance text output through direct access to video RAM, text mode attribute control, text manipulation to/from memory, plus window and screen management.

DATA SIZE

- Static variables can use up to 64K of memory, while dynamic variables use all available memory.

INPUT/OUTPUT

- Extensive set of library functions to handle multiple levels of I/O.

NUMERIC RANGES

- Unsigned char: 0 to 255
- Signed char: -128 to 127
- Unsigned int: 0 to 65535
- Signed int: -32768 to 32767
- Unsigned long: 0 to 4294967295 ($2^{32}-1$)
- Signed long: -2147483648 to 2147483647 (-2^{31} to $2^{31}-1$)
- Float: 3.4E-38 to 3.4E+38
- Double: 1.7E-308 to 1.7E+308

NO INSTALLATION NECESSARY

- Requires no installation. Copy the executable files, include files, and library routines onto your working floppies or hard disk, then go.

DOS SUPPORT

- Access to DOS command-line parameters.
- Full support of:
 - I/O redirection
 - hierarchical directories
 - function calls
 - interrupt handling

8087 FEATURES

- 8087 (80287) math coprocessor support for real number arithmetic. Increases speed and number-crunching power.

OTHER TECHNICAL FEATURES

- Generates native code (.EXE and .OBJ files)
- Random access file handling
- String-handling functions
- BIOS function calls
- In-line assembly language

SYSTEM REQUIREMENTS

Computer

For the IBM PS/2™ and the IBM® family of personal computers and all 100% compatibles.

Operating System

PC-DOS (MS-DOS™) 2.0 or later

Memory

384K minimum

Suggested Retail Price: \$99.95 (not copy protected)

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Turbo C Run-time Library Source—A Powerful Complement to Turbo C

For professional programmers, having the source code to modify a program's environment is what it's all about. The Turbo C Run-time Library Source increases the flexibility and control Turbo C offers by allowing you to customize its library of over 300 functions. This way you can add or modify routines, taking advantage of the tightly coded and optimized Turbo C Library routines without being limited by them.

As an example, this tool lets you strip out lines of code to get a smaller PRINTF to embed in programs, or tailor

a routine to a specific application. It also provides you with tremendous debugging facilities: If a program crashes, you can recompile the library and single-step through the program or use stack-checking to pinpoint a problem.

The Turbo C Run-time Library Source includes

- run-time libraries containing general library routines and standard math routines

- two files, EMUINIT.ASM and 87INIT.ASM, that allow you to modify floating-point initialization and termination processes
- eight batch files that help with recompiling and replacing modules

For serious C programmers, Turbo C Run-time Library Source is indispensable.

Suggested retail price: \$150

BOR 0290B



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Create Magic with Blaise. Turbo C TOOLS™

Magic is easy with Turbo C TOOLS in your bag of tricks. New Turbo C TOOLS™ from Blaise Computing is a library of compiled C functions that allows you full control over the computer, the video environment, and the file system, and gives you the jump on building programs with Borland's new C compiler. Now you can concentrate on the creative parts of your programs.

The library comes with well-documented source code so that you can study, emulate, or adapt it to your specific needs. Blaise Computing's attention to detail, like the use of function prototyping, cleanly organized header files, and a comprehensive, fully-indexed manual, makes Turbo C TOOLS the choice for experienced software

developers as well as newcomers to C. Turbo C TOOLS provides the sophisticated, bullet-proof capabilities needed in today's programming environment, including removable windows, "side-kickable" applications, and general interrupt service routines written in C.

The functions contained in Turbo C TOOLS are carefully crafted to supplement Turbo C, exploiting its strengths without duplicating its library functions. As a result you'll get functions written predominantly in C, that isolate hardware independence, and are small and easy to use.

Turbo C TOOLS embodies the full spectrum of general purpose utility functions that are critical to today's applications. Some of the features in Turbo C TOOLS are:

- ◆ **WINDOWS** that are stackable and removable, that have optional borders and a cursor memory, and that can accept user input.

- ◆ **INTERRUPT SERVICE ROUTINE** support for truly flexible, robust and polite applications. We show you how to capture DOS critical errors and keystrokes.

- ◆ **INTERVENTION CODE** lets you develop memory resident applications that can take full advantage of DOS capabilities. With simple function calls, you can schedule a Turbo C function to execute either when a "hot key" is pressed or at a specified time.

- ◆ **RESIDENT SOFTWARE SUPPORT** lets you create, detect, and remove resident utilities that you write with Turbo C TOOLS.

- ◆ **FAST DIRECT VIDEO ACCESS** for efficiency, and support for all monitors including EGA 43-line mode.

- ◆ **DIRECTORY AND FILE HANDLING** support let you take advantage of the DOS file structure, including volume labels and directory structure.

Blaise Computing Inc. has a full line of support products for Turbo C, Microsoft C, Turbo Pascal and Microsoft Pascal. Call today for details, and make magic!

Turbo C
TOOLS
supports
all versions
of Turbo C
including 1.5,
requires DOS
2.00 or later and
is just \$129.00.

BLAISE COMPUTING INC.

2560 Ninth Street, Suite 316 Berkeley, CA 94710 (415) 540-5441

THE BLAISE MENU

Turbo POWER SCREEN \$129.00
NEW! General screen management; paint screens; block mode data entry or field-by-field control with instant screen access. Now for Turbo Pascal 4.0, soon for C and BASIC.

Turbo POWER TOOLS PLUS \$129.00
NEW VERSION! Now supports Turbo Pascal 4.0. Screen, window, and menu management including EGA support; DOS memory control; ISRs; scheduled intervention code; and much more.

Turbo ASYNCH PLUS \$129.00
NEW VERSION! Now supports Turbo Pascal 4.0. Interrupt driven support for the COM ports. I/O buffers up to 64K; XON/XOFF; up to 19.2K baud; modem control and XMODEM file transfer.

C TOOLS PLUS \$129.00
Full spectrum of general service utility functions including: windows; menus; memory resident applications; interrupt service routines; intervention code; and direct video access for fast screen handling. Specifically designed for Microsoft C 5.0 and QuickC.

ASYNCH MANAGER \$175.00
Full featured interrupt driven support for the COM ports. I/O buffers up to 64K; XON/XOFF; up to 9600 baud; modem control and XMODEM file transfer. For Microsoft C and Turbo C or MS Pascal.

PASCAL TOOLS/TOOLS 2 \$175.00
Expanded string and screen handling; graphics routines; memory management; general program control; DOS file support and more. For MS-Pascal.

KeyPilot \$49.95
"Super-batch" program. Create batch files which can invoke programs and provide input to them; run any program unattended; create demonstration programs; analyze keyboard usage.

EXEC \$95.00
NEW VERSION! Program chaining executive. Chain one program from another in different languages; specify common data areas; less than 2K of overhead.

RUNOFF \$49.95
Text formatter for all programmers. Written in Turbo Pascal; flexible printer control; user-defined variables; index generation; and a general macro facility.

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SPECIAL OFFERS from
Programmer's Paradise!

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PUT MAGIC IN YOUR PROGRAMS WITH Turbo C TOOLS

If you ever wanted to create magic now's your chance with Turbo C TOOLS from Blaise. Turbo C TOOLS makes it easy to have the control over your computer that until now you've only been able to dream about. Now with this special offer from Programmer's Paradise you save dollars and your dream becomes a reality.

Turbo C TOOLS and Turbo C - Tailor-Made for Each Other. Blaise Computing has been developing high-quality C function libraries for years. They now bring you Turbo C TOOLS, a library tailored specifically for Borland's Turbo C compiler. Turbo C TOOLS contains 183 different functions, ranging from the simple, such as sending a new-line to the standard output device, to the complex, like installing a C function as an interrupt service routine. For more information, review the details of Turbo C TOOLS on the other side or call one of the knowledgeable account reps at Programmer's Paradise.

But don't just take our word for it, listen to the critics as well. In a critique in TURBO TECHNIX March/April Issue, reviewer Peter Aitken states:

"I am very impressed by Turbo C TOOLS. It is a powerful, well-implemented function library that should be a welcome addition to any Turbo C programmer's shelf."

"Customer support seems excellent. I received prompt and knowledgeable advice."

"Turbo C TOOLS is not merely a rewrite of the function libraries that Blaise publishes for other C compilers. It is tailored specifically for Turbo C, taking advantage of Turbo C's strengths while not duplicating functions found in Turbo C's own function library"

Call today and start creating your own Turbo C TOOLS magic!

*****SPECIAL SPRING OFFERS*****

	<u>List Price</u>	<u>Our Price</u>
Blaise Turbo C TOOLS	\$129	\$101
Turbo C TOOLS/Turbo C Bundle	\$229	\$159

Other Blaise C libraries available at Programmer's Paradise:

	<u>List Price</u>	<u>Our Price</u>
C TOOLS PLUS/5.0	\$129	\$101
C ASYNCH MANAGER	\$175	\$137
C VIEW MANAGER	\$275	\$199

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Programmer's
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*** NO ROYALTIES! ***
PC TECH JOURNAL
"PRODUCT OF THE MONTH"

NOW AVAILABLE!
"TurboWINDOW/C"
"QuickWINDOW/C"
 All the features of
 MetaWINDOW for
 Borland Turbo C &
 Microsoft QuickC!

MetaWINDOW

MetaWINDOW/PLUS

TurboWINDOW/C

TurboWINDOW/Pascal

QuickWINDOW/C

FontWINDOW

FontWINDOW/PLUS

Advanced Features

- Unparalleled performance.
- Full and complete clipping of all graphic elements and text.
- Full rasterOp functions and high speed "bitBlt" image transfers.
- Predefined and user defined line styles, fill patterns and cursors.
- Supports three coordinate reference frames: 1) *global* device coordinates, 2) *local* window coordinates and 3) *virtual* world coordinates.
- Graphics text with both bitmap and filled-outline font capabilities.
- Dynamic font facing options for **bold**, *italic*, underline, ~~strikeout~~, fixed or proportionally spaced text.
- Complex multi-polygon fill functions.
- *PostScript* style attribute types for colors, dash styles, centered dashes, fill patterns, line join types and end-cap styles.

MetaWINDOW

METAGRAPHICS SOFTWARE CORPORATION

Power Graphics for your PC!

PC Tech Journal

"... a technological tour de force for fast PC graphics."
 "... one high-powered piece of artillery."

Mini-Micro Systems

"... highly optimized bit-mapped graphics for the IBM PC."

PC Magazine

"... the only way I know to do advanced graphics from Turbo Pascal."
 "... testing has found it fast and reliable."

Complete Turbo Pascal, Jeff Duntemann

"... MetaWINDOW is written in hand optimized assembly code and is very fast. It is virtually bug free, and the manufacturer has been very responsive to questions. If you intend to do any graphics work at all, you must have this product."

PC Tech Journal - **PRODUCT OF THE MONTH**

"... out-Borlands Borland's own Turbo Graphics Toolbox."
 "... solves many problems that bedevil graphics software developers: non-standard hardware, high library cost, poor documentation, license fees, and confining license agreements. For proprietary graphics, this product may be the only choice."

The Flexible Graphics Solution

MetaWINDOW is the advanced, high performance graphics development toolkit that bridges the barrier between low-level graphic primitive libraries and pre-packaged window managers.

MetaWINDOW provides you with an expanded set of graphic drawing functions, plus the added functionality and performance required for designing multi-window desktop display applications. Through its rich function set,

MetaWINDOW greatly speeds application development while at the same time providing device independence over a broad range of graphic peripherals.

MetaWINDOW builds on today's state of the art "object oriented" display concepts, and provides powerful, advanced graphics capabilities similar to those used on the Apple Macintosh, Sun, and Apollo workstations.

Advanced Functionality

MetaWINDOW's open system architecture and innovative design affords unparalleled performance and functionality:

- Dynamic hardware recognition and run-time support - *eliminates multitudes of clumsy device drivers and bothersome configuration sessions - true device independence at last!*
- High speed "bitblt" and "zoomblt" image transfers - *quickly copy and rescale bitmap images to arbitrary sizes.*
- Virtual bitmaps - *create and manipulate graphic images in any local or ex-*

panded memory area - work with images up to 8 megabytes in size!

- Unbeatable performance - *benchmarked 2 to 10 times faster than low-level graphic primitive libraries!*
- Supports virtually all popular PC graphics adaptors and displays - *over 50 devices including new hi-res EGA adaptors such as Vega Deluxe, EVA/480, and the new IBM Personal System/2 MCGA and VGA graphics (yes, in full color!).*
- Multi-language support - *includes support for the top 20 popular C, Pascal and Fortran compilers.*

TurboWINDOW/C

POWER GRAPHICS FOR YOUR PC

Drawing pictures on a computer is hard work and **TurboWINDOW/C** goes the extra mile in providing true "what you see is what you get" graphics. **TurboWINDOW/C** supports the functions necessary for drawing, so it does the work and you have the fun!

TurboWINDOW/C provides you with an expanded set of graphic drawing functions, plus the added functionality and performance required for designing multi-window desktop display applications. And it was tailored specifically to work with Borland's Turbo C to give you the necessary tools to build your programming environment. **TurboWINDOW/C** includes an excellent 248 page manual, a memory-resident graphics driver written in assembly language, and the necessary libraries to allow Turbo C to communicate with the memory-resident driver.

Sound impressive? The critics think so. Here's what they're saying...

"Solves many problems that bedevil graphics software developers: nonstandard hardware, high library cost, poor documentation, license fees, and confining license agreements. For proprietary graphics, this product may be the only choice." Jeff Duntemann, PC Tech Journal

"Metagraphics has a winner with TurboWINDOW/C. I have developed and sold a major circuit board design program over the past year and a half. And I've had no customer complaints traceable to the Metagraphics portions of the program."
Don Fletcher, TURBO TECHNIX

"Customer support is excellent. I've called Metagraphics several times, and have gotten prompt, accurate help each time. Upgrades to the product will cost you the price of the phone call to Metagraphics".

Don Fletcher, TURBO TECHNIX

If you do graphics programming--get **TurboWINDOW/C** or our special **Turbo C bundle** and you'll have the programming environment you need.

SPECIAL SPRING OFFER

	<u>List Price</u>	<u>Our Price</u>
Metagraphics TurboWINDOW/C	\$100	\$80
Special TurboWINDOW/C & Turbo C Bundle	\$200	\$139

Other Metagraphics C language products available from Programmer's Paradise include:

	<u>List Price</u>	<u>Our Price</u>
MetaWINDOW	\$195	\$162
MetaWINDOW/PLUS	\$275	\$232

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TM



PANEL[®]

Special Offer

SEE OTHER SIDE.



PANEL/TC Screen Manager for Turbo C

Building an interactive application using Borland's Turbo C? **PANEL/TC** provides the features you need for professional program development:

PRODUCTIVITY

The **PANEL/TC** interactive screen design tools are the fastest way to get your application screens set out and tested. Just type prompts on the screen, mark out entry fields, define display and entry attributes, help boxes, borders, pop-up areas. Fields can be edited, moved and resized, and validation details entered – with the screen displayed so that the effects of your changes are always visible.

Then **PANEL/TC** saves your work to disk, from where you can either load the design directly into your application program, or for better control, automatically generate C data structures, field areas, and header files which are compiled and linked into your program.

QUALITY

PANEL/TC screens can include all the features demanded by today's applications. Several different menu types are provided, including highlighted bars with help lines. Easy-to-use library functions support pop-up fields, horizontal and vertical scrolling in a field, and validation exits for supplied or custom data checking functions. Text functions can also be carried out in graphics mode using the Turbo C version 1.5 graphics function library.

EASE OF USE

Although the library contains over 150 functions, it is logically organised so that most programs will only need to use a small subset. Documentation is provided with examples of all the main function calls. **PANEL/TC** includes library source code for all validation functions, so that you can

modify the supplied code and add your own special data handling routines. No royalties are payable for the use of **PANEL/TC** libraries linked into user applications.

PORTABILITY

PANEL/TC, and your applications developed using it, are designed to run on IBM PC/XT/AT, PS/2, and compatible systems.

But when you are ready to move to other hardware and operating systems such as OS/2, Xenix, Unix or VAX/VMS, your applications should not need to be changed at all to handle the very different screen and keyboard processing required in these environments. This is because **PANEL/TC** screens and function calls are completely compatible with Roundhill's **PANEL Plus** screen manager, which runs in an increasing range of operating environments and to which you can upgrade or convert.

Roundhill Computer Systems

PANEL/TC specifics

PANEL/TC is not just a library product. Utility and sample programs are included to assist your program development, the most important of which is the screen editor used to create and modify screen layouts. The list of supplied programs is as follows (those marked * are supplied with source code):

- **panel.** The PANEL/TC screen editor. This program is used to create and edit screen layouts, and to specify field display and entry attributes. It can handle screens containing up to 1000 fields on 127 different overlapping levels. Fields can be created, moved, reshaped, and initialised, and field attributes and entry sequence can be defined. Text can also be typed directly on the screen and the program will size a field to fit.
- **pangenc.** The PANEL/TC C code generator. The code generated consists of data areas and field control structures. The data areas are shared between PANEL/TC and your application. Data moved there is displayed by PANEL/TC display functions, and PANEL/TC read functions deliver data to them. Field control blocks contain all necessary information about field positions and attributes. A screen control block also contains pointers to all the field control blocks.
- **define*** and **enum*.** Utility programs which generate an association between field names and numbers, for use when screens are dynamically loaded by an application program.
- **document*.** A utility to document screen layouts.
- **pantest*, testc*, testm*, ppgtest*, version*.** Sample programs to demonstrate the use of PANEL/TC library functions, including the use of graphics mode.

PANEL/TC library functions

The PANEL/TC library contains over 150 functions but the majority of programs only need to use a subset of about two dozen. The base functions comprise the startup and termination functions, and a group of eighteen field manipulation functions which can operate on individual fields, whole screens, or user-specified lists of fields. For each of these three types there are six functions which handle preparation, display, reading, clearing, and removing or deleting overlay fields.

Validation exits occur on each keystroke, data character, and line of input, and source code is provided for all these functions, as well as for the table which controls the standard and user-modifiable validation. Source code is also included for the higher-level functions such as those for pop-up menus and for scrolling multiple fields. The interface to the Turbo C graphics library is also supplied in source form. All source code is fully commented.

Also available:

Roundhill's PANEL *Plus* screen manager is fully compatible at the screen and function call level with PANEL/TC.

Registered users of PANEL/TC can upgrade to the MS-DOS version of PANEL *Plus* at special prices.

PANEL *Plus* includes full library source code, and every version of PANEL *Plus* includes source modules for interfacing to all currently supported compilers and operating systems. Like PANEL/TC, no royalties are payable for the use of PANEL *Plus* libraries when linked into applications, and the availability of library source at no extra cost means that you can port your applications to just about any environment where you can find a C compiler.

Current PANEL *Plus* versions include:

DOS (supporting Aztec, Borland, CI C86PLUS, IBM, Lattice, Mark Williams, Metaware, or Microsoft C compilers), OS/2 (supporting IBM, Microsoft, or Lattice C compilers), SCO Xenix, QNX, Microport Unix System V/AT, Unix (on AT&T 3B range, IBM 6150 RT/PC, NCR Tower, Sun, Hewlett-Packard 300), and VAX/VMS.

Kick off spring and order your new PANEL/TC library from Programmer's Paradise and SAVE!

Buy PANEL/TC for this low price or take advantage of our Special Spring Bundle and get both PANEL/TC and Borland Turbo C for the incredible price of only \$159.

	<u>List Price</u>	<u>Special Offer</u>
PANEL/TC	\$129	\$99
PANEL/TC & Turbo C	\$229	\$159

Programmer's Paradise Call: 1-800-445-7899

80386 SOFTWARE

DEVELOPMENT TOOLS

	List	Ours
386 ASM/Link by Phar Lap	\$ 495	422
386 ASM/LinkLoc	695	595
386 DEBUG	195	157
386 DOS Extender LinkLoc	1495	1,299
386 To The Max by Qualitas	395	339
ADVANTAGE 386 C by Lifeboat	75	66
ADVANTAGE 386 Pascal by Lifeboat	895	839
Alysys 386 Ada w/maintenance	3,655	3,399
F77L-EM/16 by Lahey	695	629
F77L-EM/32	895	805

Lahey

Extended Memory FORTRAN Compilers

F77L-EM/16 (16-bit) & F77L-EM/32 (32-bit) are designed for programmers who are writing or porting large FORTRAN programs that exceed DOS's 640K program size limit.

Both operate with either of A.I. Architect's DOS extender operating systems: A.I. Architect's Developers' Kit OS or the Lahey/A.I. OS. By adding protected mode capabilities to DOS itself, these operating systems offer the performance and flexibility that a large address space can give the user without sacrificing any DOS compatibility. Little time is spent learning a new system and users save money by being able to keep and run all their DOS-based software. F77L-EM/16 allows users to port FORTRAN programs as large as 15 megabytes on 80286 machines and F77L-EM/32 gives the user the ability to address up to 4-gigabytes on 80386 machines.

No other company can offer both a 16-bit and 32-bit extended memory FORTRAN compiler. If you demand the very best, there is no substitute for the performance of a Lahey compiler.

Lahey
Computer Systems Inc.

VM/386...

The Professional MultiTasker

Turns One 386 PC Into Many PCs

Multitask Your DOS Programs – Quickly and Easily.

Control Program for 386 Computers

VM/386 creates Virtual Machines, like separate PCs, each running its own task simultaneously. Virtual Machines are protected from one another. A crash in one will not crash the others.

Multitasking Power with Virtual Machines

Δ Run any DOS application and memory-resident program including EMS applications, without modifications.

Δ Recalculate a 1-2-3 spreadsheet, sort a dBASE III file and receive your E-mail -- all at the same time.

Δ Run EGA applications perfectly in foreground and background.

Protect your Software Investment

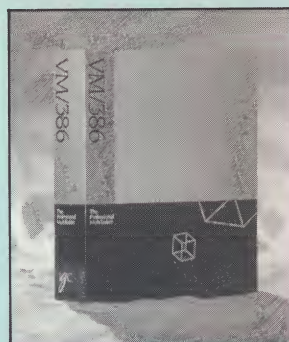
VM/386, the control program for 80386-based PCs, lets you run the DOS software you're already using - no upgrades to buy, no new commands to learn. No PIF files. No special loaders.

Customizing Virtual Machines

Δ Run a different DOS, CONFIG.SYS, AUTOEXEC.BAT, memory resident program and application in each Virtual Machine.

Δ Tailor Virtual Machine configurations to your needs and assign higher priorities to tasks.

Δ Startup Files automatically load your most often used applications when you boot.



IGC

	List	Ours
FoxBASE+/386 by Fox Software	\$ 595	459
High C 386 by MetaWare	895	839
NDP C-386 by Microway	595	549
NDP FORTRAN-386 by Microway	595	549
Professional Pascal 386 by MetaWare	895	839
X-AM DOS Extender by IGC	595	549

OPERATING SYSTEMS & CONTROL PROGRAMS

	List	Ours
Concurrent DOS 386 by Digital Research	\$ 395	349
DESeqview by Quarterdeck Microport	130	115
386 DOS Merge, Limited	399	349
386 DOS Merge, Unlimited	499	429
System V/386 (complete)	899	759
Runtime System	299	249
Software Development System	549	465
Text Preparation System	199	169
Unlimited User Upgrade	299	249
Microsoft Windows/386	195	130
PC-MOS 386 by The Software Link		
1 User	195	181
5 Users	595	553
25 Users	995	899
SCO		
386 XENIX System V (comp.)	1,495	1,195
Operating System	695	589
Development System	695	589
Text Processing Package	195	149
VP/IX (2-users)	495	399
VP/IX (unlimited users)	995	799
XENIX for IBM PS/2 Model 80:		
386 XENIX Sys. V (complete)	1,695	1,359
Development System	795	679
Operating System	795	679
Text Processing Package	195	169
VM/386 by IGC	245	182

MS/PC-DOS / OS/2 SOFTWARE

ADA LANGUAGE

Alslys 386 Ada w/ maintenance	\$ 3,655	3,399
Alslys Ada w/ maintenance	3,355	3,199
Alslys Ada Developer's Toolsets	995	929
Janus/Ada "J.E.T. SET" by R.R. Software	99	90
Janus/Ada Educational Pak	395	382
Janus/Ada Development Pak	799	754

Alslys Ada

The Alslys Ada Compiler for the PC AT is the premier Ada compilation system for personal computers.

The Alslys Ada compiler is unique among Ada compilers in permitting an application to run in 80286 protected mode, directly accessing extended memory (up to 16M bytes on an AT). Very large Ada applications (>500,000 lines of code) can be developed under DOS on an AT. A 4 megabyte memory board is included with the Compiler.

Alslys Ada is officially validated, and includes the Compiler, Multi-Library Environment, Binder, and Ada Run Time Executive. The product features a High-Level Optimizer, unused subprogram elimination, representation clauses, 80286 or 8086 code generation, enhanced error traceback and excellent error messages. Alslys Ada is the high quality Ada compiler for the PC AT.



APL LANGUAGE

	List	Ours
APL*PLUS PC by STSC	\$ 695	499
APL*PLUS PC Fin. & Stat. Lib.	275	195
APL*PLUS PC Spreadsheet Mgr.	195	145
APL*PLUS PC Tools	295	205
APL*PLUS PS/2	695	499
APL TOOLS by STSC	295	199
ATLAS*GRAPHICS by STSC	450	339
Btrieve by Novell	245	185
Btrieve/N	595	455
Pocket APL by STSC	95	80
STATGRAPHICS by STSC	895	674
Screen Ace by Ace Software	195	165
Xtrieve by Novell	245	189
Report Option	145	109

ARTIFICIAL INTELLIGENCE

LISP LANGUAGE

Le LISP by Expertelligence	395	363
muLISP-87 Interpreter by Soft Warehouse	300	199
muLISP-87 Interpreter/Compiler	400	262
PC Scheme by Texas Instruments	95	86
Star Sapphire LISP by Sapiens	495	449
TransLISP by Solution Systems	95	80
TransLISP PLUS	195	169

PROLOG LANGUAGE

	List	Ours
Active Prolog Tutor by Solution Systems	\$ 65	56
APES 2.2 by Logic Based Sys.	250	222
APES 2.2 Toolkit	500	433
Arity Combination Package	1,095	999
Expert System Dev Package	295	232
File Interchange Toolkit	50	45
Compiler/Interpreter	650	574
Advanced Toolbox	150	131
SQL Development Package	295	232
Prolog Interpreter	295	232
Standard Prolog	95	80
Cogent Prolog by Cogent	200	181
Cogent Prolog Toolbox	79	70
ExperProlog by Expertelligence	495	453
MicroProlog by LPA	99	80
w/ APES 1.1	150	131
Prolog-86 by Solution Systems	125	90
Prolog-86 Plus	250	199
Prolog Pro Compiler by LPA	895	779
Prolog Pro Interpreter by LPA	395	349
Turbo Prolog by Borland	100	69
Turbo Prolog Toolbox	100	69

OTHER

Personal Consultant Easy by Texas Instruments	495	439
Personal Consultant Image	495	439
Personal Consultant Online	995	874
Personal Consultant Plus	2,950	2,599
Personal Consultant Runtime	95	86
VP Expert by Paperback Software	100	90

ADVANTAGE Disassembler

A memory-resident program, ADVANTAGE Disassembler gives programmers the ability to disassemble executable files (.exe and .com files) to produce comprehensive, well-documented assembly language source code. This disassembler displays the contents of memory in hex/ASCII format, helping you to decide which areas to mark as data in the control table as part of the disassembly process.

Suspend disassembly at any point, save the intermediate results and later resume the disassembly process. ADVANTAGE Disassembler provides immediate feedback as you work, storing results in tables on disk and gives you the ability to disassemble memory resident programs. It also can handle arbitrarily large files. The final output is ready for Microsoft assembler. Supports 8086/186/286 code and 8087/80287 coprocessors.

LIFEBOAT®

ASSEMBLY LANGUAGE

ASSEMBLERS

	List	Ours
386ASM/Link by Phar Lap	\$ 495	422
DR Assembler + Tools by Digital Research	200	182
Microsoft Macro Assembler	150	99
Microtec Cross Assemblers	Call	Call
OPTASM by SLR Systems	195	172
Pasm86 by Phoenix	195	115
Quelo 68000/20 Cross Assembler	595	519
Relms Cross Assemblers	Call	Call
Uniware Cross Assemblers by SDS	Call	Call

Microsoft Macro Assembler

Puts all the speed and power of assembly-language programming within easy reach.

Macro Assembler V. 5.1, the fastest macro assembler available for the MS-DOS environment, is the bridge you've been looking for to the assembly-language environment. You can, for example, use the powerful graphics functions of MS QuickBASIC or the efficient math functions of MS FORTRAN and then add time-critical routines in MS Macro Assembler.

Features include:

- * Full support for MS OS/2.
- * Support for the 80386 instruction set and 80386 segmentation.
- * Simplified segment directives that allow easy program and subroutine setup.
- * Special constructs that make the writing of a mixed language routine as simple as identifying the calling language and the parameter to be passed.
- * The new Microsoft Editor.

CodeView debugger is integrated for efficient debugging. It is ideal for debugging assembly language programs because it shows the programmer exactly what is going on inside the machine. And it now handles .exe files up to 128 megabytes.

Microsoft®

LIBRARIES / UTILITIES

	List	Ours
ADVANTAGE Disassembler by Lifeboat	\$ 295	279
asmLIB by BCSof	149	127
asmTREE by BCSof	395	342
DMS RESIDENT-ASM by American Software Int'l.	80	76
w/source code	150	141
EZ ASM by C Source	70	65
GSS Graphics Development Toolkit by Graphic Software Systems	495	399
HALO '88 by Media Cybernetics	325	229
Microsoft OS/2 Programmer's Toolkit	350	229
Turbo EDITASM by Speedware	99	86
Visible Computer: 8088 by Software Masters	80	66
Visible Computer: 80286	100	90

Microsoft BASIC/6.0

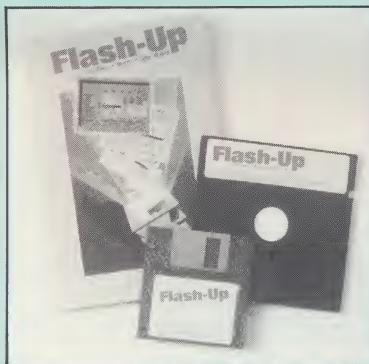
Develop programs for MS OS/2 as well as MS-DOS and now get the exceptional debugging power of Microsoft CodeView.

Microsoft BASIC Compiler/6.0 supports the MS OS/2 and MS-DOS operating systems, letting you create both protected mode programs and real-mode programs. This broad operating system support, together with the debugging power of Microsoft CodeView, significant new language enhancements and a host of new utilities, makes Microsoft BASIC compiler the most advanced BASIC compiler available for the personal computer environment - and the total BASIC solution for the professional programmer.

BASIC/6.0 also includes:

- * QuickBASIC/4.0
- * Microsoft Editor, a new programmable editor, the first to run in protected mode.
- * Choice of three math libraries.
- * Support for structured and modular programming.
- * Time saving utilities such as a library manager, linker and make.
- * Support for interlanguage calling.

Microsoft®



Flash-Up

Put RAM resident macros, menus and notes into all your applications...without programming.

Flash-Up sets a new standard in programming tools. Put smart menus, keyboard macros and help notes into your database applications without writing a line of code. Just draw your windows, fill them with macros or text and attach them to any part of your screen. Use smart menus to control all your programs, send commands and automate data entry in database applications. Create help notes for online context-sensitive help - reduce tech support by up to 90%. Add keyboard macros to send quick, accurate commands and keystrokes.

Flash-Up has:

- Δ A RAM resident draw-it-yourself window editor and complete macro editor.
 - Δ Electronic Glue which is a super fast way of scanning your screen and cursor position. It makes sure the right menu and note always appears at the right time. Even when inside other programs.
 - Δ A Flash-Up Developer's ToolBox which includes a royalty-free runtime module and unique programming language interface. Distribute your Flash-ups free and automatically call them from your custom programs.
 - Δ Add more support to all your programs.
- It's the one tool you need for all your IBM PC and PS/2 software.



THE
SOFTWARE
BOTTLING
COMPANY

BASIC LANGUAGE

COMPILERS / INTERPRETERS

	List	Ours
Microsoft BASIC/6.0	\$ 295	189
Professional Basic by Morgan	99	76
QuickBASIC by Microsoft	99	69
T Basic by Trans Era	495	453
True BASIC by True Basic w/ Runtime	100	80
Turbo Basic by Borland	150	111
	100	69

LIBRARIES

87 Software Pak by Hauppauge	180	152
Basic Development Tools by Sterling Castle	99	80
Finally! by Komputerwerks	99	90
Finally! Modules	99	90
MACH 2 by MicroHelp	79	60
MicroHelp Toolbox	79	60
Professional BASIC 8087 Math Support by Morgan	50	45
Quick-Tools by BCSof	130	111
QuickPak by Crescent Software	69	60
QuickPak II	49	45
SSP/PC by Lattice	350	272
True BASIC Advanced String Lib.	50	45
True BASIC Asynch Comm Support	50	45
True BASIC Developer's Toolkit	50	45
True BASIC Mathematician's Toolkit	50	45
Turbo Basic Telecom Toolbox by Borland	100	69

FILE MANAGEMENT

Btrieve by Novell	245	185
Btrieve/N	595	455
db/LIB by AJS Publishing	139	121
EXIM Toolkit by EXIM Services w/ NETBIOS Support	100	90
FABS86M by Comp. Control Sys.	200	182
FABS Plus	150	131
QBase by Crescent Software	195	172
QBase Report	99	90
True BASIC Btrieve Interface	69	60
Turbo Basic Database Toolbox by Borland	50	45
Xtrieve by Novell	100	69
Report Option	245	189
	145	109

GRAPHICS

	List	Ours
Finally! XGRAF by Komputerwerk	\$ 99	90
GraphPak by Crescent Software	69	60
GSS Graphics Development Toolkit by Graphic Software Systems	495	399
HALO '88 by Media Cybernetics	325	229
True BASIC 3-D Graphics	50	45
True BASIC Business Graphics	80	66
True BASIC Scientific Graphics	80	66

1-800-445-7899
In NY: 914-332-4548

Programmer's
Paradise™



SCREENS / WINDOWS

	List	Ours
Flash-up by Software Bottling	\$ 89	80
Flash-up ToolBox	49	45
HI-SCREEN XL by Softway	149	129
QuickWindows	79	70
by Software Interphase		
w/ source code	99	90
Screen Sculptor by Software Bottl'g	125	96
Speed Screen	35	29
True BASIC Forms Mgmt. Library	50	45

OTHER RELATED PRODUCTS

Microsoft OS/2		
Programmer's Toolkit	350	229
On-line Help by Opt-Tech DP	149	105
Opt-Tech Sort by Opt-Tech DP	149	105
Source Print by Aldebaran Labs	97	80
Stay-Res by MicroHelp	79	56
Stay-Res Plus	109	90
StruBAS by LANEY Systems	495	449
True BASIC BASICA Converter	50	45
True BASIC Runtime Module	100	80
True BASIC Sorting and Searching	50	45
Turbo Basic Editor Toolbox	100	69
by Borland		

C LANGUAGE

COMPILERS

ADVANTAGE 386 C by Lifeboat	895	839
AZTEC C Commercial by Manx	499	Call
AZTEC C Developer	299	Call
C86PLUS by Computer Innovations	497	369
Datalight C Developer Kit	99	89
Datalight Optimum-C	139	109
High C by MetaWare	595	549
High C 386	895	839

Lattice C

New version 3.3 includes support for OS/2.

Features:

- * Full support for MS OS/2.
- * Includes "family" versions of the Lattice Screen Editor and the C-SPRITE debugger.
- * Improved embedded systems support.
- * Enhancements to the standard libraries.
- * Full implementation of K&R C with UNIX and ANSI extensions including void, enum, unsigned, structure arguments and structure assignment.
- * Offers the widest selection of C tools.
- * Over 300 library functions providing ANSI/UNIX/XENIX compatibility as well as supporting unique MS-DOS capabilities.

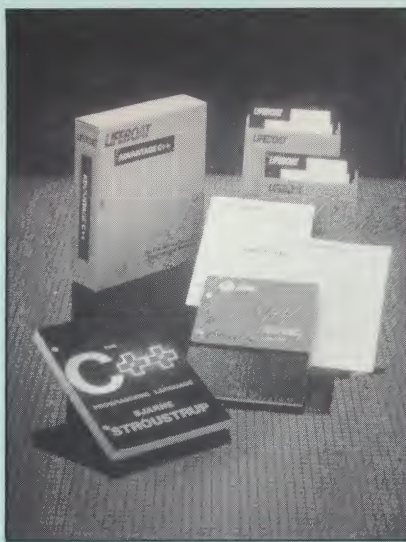


	List	Ours
Lattice C	\$450	272
w/ source code	900	499
Let's C by Mark Williams	75	59
Microsoft C	450	285
NDP C-386 by Microway	595	549
QuickC by Microsoft	99	69
Turbo C by Borland	100	69
WATCOM C by WATCOM	295	269
WATCOM Express C	75	69

Get more pluses with ADVANTAGE C++.

Expand your programming capabilities with C++, the object-oriented language from AT&T that gives you all the benefits of C without its limitations. New enhanced ADVANTAGE C++ is the only full C++ implementation available for the PC.

- + Develop large and complex programs with greater resilience, fewer bugs.
- + Fully compatible with your existing C programs and libraries.
- + Code is more reliable and maintainable.
- + Fully tested and documented.
- + Small to large memory models.
- + Microsoft Windows compatible.
- + Available for Microsoft and Lattice C compilers: MS-DOS, XENIX and UNIX operating systems.



LIFEBOAT®

C++		
ADVANTAGE C++ by Lifeboat	\$495	479
PforC++ by Phoenix	395	215

PRODUCTS FOR

QUICK C / TURBO C

	List	Ours
C ASYNCH MANAGER by Blaise	\$175	137
C TOOLS PLUS/5.0 by Blaise	129	101
C-Scape by Oakland Group	100	95
C-terp for Turbo C by Gimpel	139	121
dBC III by Lattice	250	172
Essential Libraries	Call	Call
Greenleaf C Sampler	95	69
Greenleaf Libraries	Call	Call
HALO '88 by Media Cybernetics	325	229
PANEL/QC by Lifeboat	129	99
PANEL/TC by Lifeboat	129	99
Periscope II-X	145	106
QuickWINDOW/C by Metagraphics	95	80
Turbo C TOOLS by Blaise	129	101
TurboHALO by Media Cybernetics	100	86
TurboWINDOW/C by Metagraphics	95	80

C-terp

A debugging C interpreter fully compatible with your compiler.

Not just a learning tool, C-terp is a development environment that supports multiple-modules; has a multi-file editor, built-in automatic make, virtual memory option (with optional direct use of expanded or extended memory) and shared symbols (for those big programs). C-terp links to external libraries and data, supports calls from externals, and has compatible function pointers.

Full screen debugging (code in upper portion, dialogue in lower); single-step, side-step, leave-function; breakpoints can be temporary, sticky, cursor-directed, conditional. Execute any C expression (even with macros); display variables, arrays, structures, subarrays. Function traceback (with arguments); watch conditions. Out of bounds pointers are trapped.

Complete compatibility: C-terp is compiler specific and fully compatible with the large memory model of seven MS-DOS C compilers -- Aztec, C86, C86PLUS, Lattice, Microsoft 4/5, Mark Williams, or Turbo 1/1.5. Batch files will quickly link in your compiler library and other external libraries.

GIMPEL SOFTWARE

INTERPRETERS

C-terp by Gimpel	\$ 298	232
Instant C by Rational Systems	495	384
Instant C/16M	895	699
Interactive C by IMPACC	249	211
RUN/C by Lifeboat	120	85
RUN/C Professional	250	159

C TOOLS PLUS/5.0

Enhance your Microsoft C programming environment.

This new quintessential library of C functions allows you to concentrate on program creativity and quickly build professional applications using the full power of Microsoft C V.5.0 and QuickC.

C TOOLS PLUS/5.0 helps you to create powerful, reliable programs fast. Features:

- * Windows
- * Menus
- * Interrupt service routine
- * Resident software support
- * Intervention code
- * Fast direct video access
- * Printer control
- * Utilities and macros
- * And much more

Included is complete documented source code that you can study and adapt to your specific needs. The use of full function prototyping, cleanly organized header files, and a comprehensive, fully-indexed manual, makes **C TOOLS PLUS/5.0** the choice for experienced developers as well as newcomers to C.



BLAISE COMPUTING INC.

TimeSlicer

Now your programs can do more than one task at once.

TimeSlicer is a linkable library of C functions for creating multitasking and real-time programs at the application level rather than interfacing with the operating system.

Δ Highly efficient -- 10,000 context switches/second; 80 micro seconds interrupt latency.

Δ Unlimited number of tasks can be run concurrently.

Δ Create, suspend or terminate tasks at run-time.

Δ Supports large & small memory models; preemptive and non-preemptive modes; waking-up of tasks to optimize special event processing; and interrupt service routines written in C.

Δ Extensive intertask communication.

Δ Compatible with Lattice C, Microsoft C, ADVANTAGE C++ and assembly language.

LIFEBOAT®

db_VISTA

db_VISTA is the most popular file manager for C programmers. Here's why....

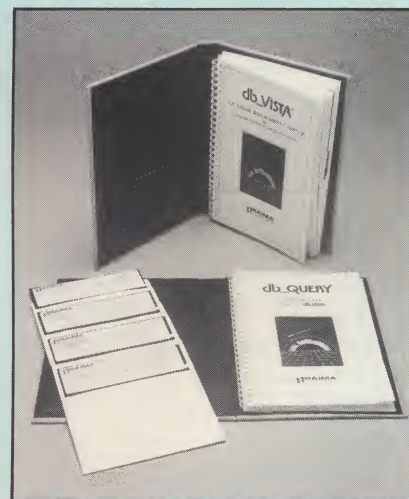
It's fast! And it still gives high performance where others slow down. The unique combination of the B-tree indexing method and the "network" model (direct "set" relationships between records) is the reason for the speed.

It's flexible. Use db_VISTA as an ISAM file manager or to design database applications. You decide how to optimize run-time performance. No other tool gives you this flexibility without sacrificing performance.

It's portable. Operates on most popular computers and operating systems like MS-DOS, UNIX and Macintosh. You can write applications that will port easily.

SQL-based db_QUERY. Give users a relational view of your db_VISTA applications with our C-linkable, SQL-based, ad-hoc query and report-writing product db_QUERY. Relational simplicity built on network performance.

Royalty Free.
Complete source code available.



RAIMA™
CORPORATION

LIBRARIES

	List	Ours
BASIC_C by C Source	\$ 175	141
Blackstar C Function Library by Sterling Software	125	101
C ASYNCH MANAGER by Blaise	175	137
C-FOOD Smorgasbord by Lattice w/ source code	150	97
C/PAC (PforCe, Pre-C) by Phoenix	300	182
C TOOLS PLUS/5.0 by Blaise	495	279
C Utility Library by Essential Software	129	101
CxPERT by Software Plus	185	125
Entelekon C Function Library	395	335
Essential Communications	130	121
Essential Communications Plus	185	125
Greenleaf C Sampler	250	199
Greenleaf Comm Library	95	69
Greenleaf Functions	185	125
LIGHT TOOLS by Blaise	100	75
Multi-C by Cytek	149	137
Multi-Comm by Cytek	149	137
PforCe by Phoenix	395	215
Science and Engineering Tools by Quinn Curtiss	75	70
SSP/PC by Lattice	350	272
The HAMMER by OES Systems	195	131
TimeSlicer by Lifeboat w/ source code	295	279
Turbo C TOOLS by Blaise	1,000	899
WKS Library by Raima	129	101
	89	80

FILE MANAGEMENT

	List	Ours
BPT Plus in C by Sterling Castle	79	66
Btrieve by Novell	245	185
Xtrieve	245	189
Report Option	145	109
Btrieve/N by Novell	595	455
Xtrieve/N	595	459
Report Option/N	345	279
CBTREE by Peacock Sys.	159	141
C-ISAM by Informix	225	199
c-tree by FairCom	395	318
d-tree	395	Call
r-tree	295	241
c-tree/r-tree Bundle	650	523
CQL by Kurtzberg	395	332
DBC III by Lattice	250	172
w/ source code	500	362
DBC III PLUS	750	599
w/ source code	1,500	1,189
db_QUERY by Raima	195	159
w/ source code	495	399
db_QUERY Multiuser	495	399
w/ source code	990	799
db_VISTA by Raima	195	159
w/source code	495	399
db_VISTA Multiuser	495	399
w/ source code	990	799
FABS86M by Comp. Control Sys.	150	131
FABS Plus	195	172
Informix ESQ/LC	595	539
Informix 4GL	995	899
Informix SQL	795	719
PHACT Manager by UNIPRESS	249	222
XQL by Novell	795	599

GRAPHICS

	List	Ours
ADVANTAGE Graphics by Lifeboat	\$ 250	229
Drawbridge by Courseware	129	111
Essential Graphics	299	229
w/ source code	598	509
GFX by C Source	95	86
GraphiC by Scientific Endeavors	395	322
GSS Graphic Development Toolkit by Graphic Software Systems	495	399
HALO '88 by Media Cybernetics	325	229
HALO '88 for two compilers	475	329
HALO '88 for Microsoft Dev.	595	399
HALO '88 Ten Font Pack-A	100	80
HALO '88 Ten Font Pack-B	100	80
HOOPS by Ithaca Software	575	554
MetaWINDOW by Metagraphics	195	162
MetaWINDOW/PLUS	275	232
QuickWINDOW/C by Metagraphics	100	80
Turbo Geometry Library by Disk Software	100	90
TurboHALO by Media Cybernetics	100	80
TurboWINDOW/C by Metagraphics	100	80

LINT UTILITIES

PC-lint by Gimpel	139	101
Pre-C by Phoenix	295	159

SCREENS / WINDOWS

C Power Windows by Entelekon	130	117
C-Scape by Oakland Group	299	282
C VIEW MANAGER by Blaise	275	199
Curses by Lattice	125	90
w/ source code	250	172
Flash-up by Software Bottling	89	80
Greenleaf DataWindows for OS/2	295	279
JAM by JYACC	750	684
JYACC FORMAKER	495	453
Microsoft Windows	99	69
MS Windows Development Kit	500	319
Multi-Windows by Cytek	295	269
PANEL by Lifeboat	295	215
PANEL Plus	495	395
for OS/2	495	395
PANEL/QC	129	99
PANEL/TC	129	99
QuickScreen by Lifeboat	195	175
Screen Ace by Ace Software	195	165
screenplay by Flexus	Call	Call
ScreenStar by Essential	99	85
w/source code	198	169
SoftCode by Software Bottling	195	165
Vitamin C by Creative Program.	225	162
VCScreen	100	80
Windows for C	195	169
by Vermont Creative Software		
w/ source code	390	339
for OS/2	395	339
w/ source code	790	669
Windows for Data	295	239
by Vermont Creative Software		
w/ source code	590	479
for OS/2	495	419
w/ source code	990	839
ZView by Data Mgmt. Consultants	245	172

Vitamin C

Fast, flexible,
versatile, reliable.

Vitamin C delivers the vital combination software professionals demand to produce superior applications in dramatically less time. Highly efficient, professionally crafted C code provides lightning fast displays required by today's window intensive programs.

High level functions provide maximum productivity and require little supporting code. Extended versions of these routines add flexible control over specific details when necessary. Plus, Vitamin C's versatile, open ended design is full of hooks so you can intercept and plug-in special handlers to customize or add features to most routines.

VCScreen, the screen painter/code generator speeds your development even more! Simply draw your input forms using the interactive design editor and generate perfect C source code ready to compile and link with the Vitamin C library.

With Vitamin C you get:

- * Multiple bullet proof windows.
- * Easy full screen data entry.
- * Unlimited data validation.
- * Context sensitive help.
- * No royalties or runtime fees.
- * Free library source code.

creative
PROGRAMMING

OTHER RELATED PRODUCTS

	List	Ours
C:LINE/c:Tree by Softrex	60	55
DMS RESIDENT-C	80	76
by American Software Int'l.		
w/ source code	150	141
LINK & LOCATE	350	292
by Systems & Solutions		
LinkLoc by Phar Lap	395	339
Microsoft OS/2		
Programmer's Toolkit	350	229
Pfantasy Pac by Phoenix	995	629
Pro-C by Chancelogic	495	399
/*resident C*/ by Essential	99	85
w/ source code	198	169
Sapiens V-8 by Sapiens Software	300	269

COBOL LANGUAGE

COMPILERS

	List	Ours
Micro Focus COBOL/2	\$ 900	733
w/ COBOL/2 Toolset	1,800	1,465
PC-CICS	1,495	Call
LEVEL II COBOL	349	282
w/ Animator	495	399
Personal COBOL	149	121
Microsoft COBOL	700	449
Realia COBOL	995	794
w/ RealMENU by Realia	1,145	899
RM/COBOL by Ryan-McFarland	950	763
RM/COBOL-85	1,250	999
RM/MASTER COBOL	1,350	Call

FILE MANAGEMENT

Btrieve by Novell	245	185
Btrieve/N	595	455
FABS Plus by Comp. Control Sys.	195	172
Xtrieve by Novell	245	189
Report Option	145	109
XQL by Novell	795	599

Microsoft COBOL

Microsoft COBOL gives programs a new look. Support for interactive programs, and more. The extended screen section lets you create programs that you'd never thought could be written in COBOL. Quickly, easily. Performance is top notch. ISAM lets your applications blaze through files. And of course, Microsoft COBOL complies with the ANSI standard.

And now Microsoft COBOL comes with COBOL Tools. The perfect companion to the compiler. A complete set of utilities to make debugging and maintenance even easier. Includes ViewCOB, the advanced interactive debugger that lets you control and examine programs easily.

Microsoft®

SCREENS

	List	Ours
COBOLspII by Flexus	\$395	332
E-Z COB by E-Z GEN	295	269
E-Z PAGE by E-Z GEN	295	269
FORMS-2 by Micro Focus	295	239
RM/Screens by Ryan-McFarland	395	339
SCREENIO by Norcom	400	382
screenplay by Flexus	175	131

OTHER UTILITIES

COBOL/2 Toolset by Micro Focus	900	733
COBOL/IQ by Micro Focus	495	399
FPLIB by BCSoft	149	131
w/ source code	249	219
Microsoft Sort	195	130
Opt-Tech Sort by Opt-Tech DP	149	105
RealCICS by Realia	995	791
RealMENU by Realia	150	119
RM/InfoExpress	595	493
by Ryan-McFarland		
Sortex by Systemat	99	90
SOURCEWRITER by Micro Focus	995	799

CO/SESSION

Communication Software

Support Remote PCs,
LANs and Customers
Anywhere!

Increase your productivity and eliminate travel with remote communication software that makes remote technical support, debugging and service practical.

CO/SESSION's dual screen/dual keyboard capability lets two PC users work simultaneously on the same program or gives one user remote access to a second machine. Run any program remotely, including color and graphics.

Work close up and interactively with remote PC users using keyboard chat and voice modes. Access unattended PCs and networks. Emulate a TTY terminal and access bulletin board services. Transfer files, record sessions, print remotely and more.

- * High speed file transfers with error checking and data compression
- * Background communications.
- * Automatic Billing log.
- * Password and dial back protection.
- * Supports Hayes compatible modems from 300 to 38.4 bps.

TritonTechnologies Inc.

COMMUNICATIONS

	List	Ours
ASCOM IV by D.M.A.	\$195	177
Blue Streak Plus by Lang-Allan	90	80
Data Extraction Module	150	121
Co/Session (2 user license)	249	227
by Triton Technologies		
Support	175	157
Application	125	116
Carbon Copy Plus	195	142
by Meridian Technology		
CC Express by Meridian Tech.	595	499
Close-Up by Norton-Lambert		
Support	245	222
Customer	195	167
Ptel by Phoenix	50	45
SideTalk by Lattice	120	90

CROSS TOOLS

CASM-6502 C X-Compiler	1,450	1,225
by Relms		
CASM-80 C X-Compiler	1,450	1,225
CASM-Z80 C X-Compiler	1,450	1,225
Lattice 68000 C X-Compiler	500	425
Lattice Z80 C X-Compiler	500	425
w/ source code	1,000	Call
MICROTEC MCC68K	1,750	Call
C X-Compiler		
MICROTEC X-ASMS	Call	Call
PASM-68K PASCAL	1,450	1,225
X-Compiler by Relms		
PASM-80 PASCAL	1,450	1,225
X-Compiler		
PASM-Z80 PASCAL	1,450	1,225
X-Compiler		
Quelo 68000/68010	595	519
X-Assembler		
RELMS X-ASMS	Call	Call
Uniware 8 Bit X-ASMS by SDS	295	265
Uniware 16/32 Bit X-ASMS	395	355
Uniware C68020 C	995	895
X-Compiler		

DATABASE TOOLS

DATABASE MANAGEMENT SYSTEMS

	List	Ours
DataEase by Software Solutions	\$600	483
DataFlex by Data Access	695	633
dBASE III Plus by Ashton-Tate	695	399
dBASE Mac by Ashton-Tate	495	329
dbMan by Versasoft	495	422
DBXL by Wordtech	169	119
Informix ESQ/C	595	539
Informix 4GL	995	899
Informix SQL	795	719
Magic PC by Aker	195	179
Opus One by RSI	149	137
Paradox v.1.1 by Borland	495	369
Paradox v. 2.0	725	529
Paradox Network Pack	995	729
Paradox 386	895	625
Q&A by Symantec	349	219
R:Base for DOS by MicroRim	725	593
Reflex by Borland	150	109
Revelation Advanced by Cosmos	950	783
The Base by Phoenix Tech Group	100	90
XDB-SQL by Software Sys. Tech.	395	352

dBASE COMPILERS

Clipper by Nantucket	695	399
dBFast by dBFast, Inc.	69	60
Force III by Sophco	129	117
FoxBASE+ by Fox Software	395	269
FoxBASE+/386	595	459
Front Runner by Apex	295	269
Multibase by SBT	199	182
Quicksilver by Wordtech Systems	599	369
R: Turbo by AI Ware	695	Call

dBASE APPLICATION GENERATORS

Blade by Dietersoft	Call	Call
COda by MCC	345	Call
Flash Code by Software Bottl'g	150	116
Speed Screen	35	29
Genifer by Bytel	395	282
QuickCode Plus by Fox & Geller	295	239
UI Programmer by Wallsoft	295	249

CODE ANALYZERS

dANALYST by TranSec Sys.	95	89
dBFind by Software Dev. Factory	99	90
dBPower by NV Systems	98	90
dFLOW by Wallsoft	149	125

COMMUNICATIONS LIBRARIES

ADComm by Pinnacle Publ.	295	282
ADComm 99	99	90
Blue Streak Plus by Lang Allan	90	80
Data Extract Module	150	121
DCOMM Link by FAST COMM	295	268
SilverComm Library by SilverWare	150	139

1-800-445-7899
In NY: 914-332-4548

Programmer's
Paradise™



DEBUGGING TOOLS

	List	Ours
dbSCOPE by Comtel	\$ 69	60
dBug III by HJS Research	195	181

DOCUMENTATION AIDS

Clear by Clear Software	100	90
d/Action by dPro's Software	80	70
dB ONLINE by SofSolutions	50	45
Source Print by Aldebaran Labs	97	80
The Documentor by Wallsoft	295	249
Tree Diagrammer by Aldebaran Labs	77	70

EDITORS

BRIEF w/ dBRIEF by Solution Sys.	275	Call
dBRIEF by Solution Systems	95	Call
Instant Editor by Comtel	69	60
PI Editor by The Iliad Group	195	165
Schemacode by Schemacode Intl.	295	272

GENERAL LIBRARIES

dBASE Programmers Utilities by Ashton-Tate	90	79
Programmer's Utilities Vol. II	90	79
dBASE Tools For C by Ashton-Tate	90	69
dBASE Tools for Pascal by Ashton-Tate	90	69
Integrated Development Library by Integrated Dev. Corp.	99	90
Professional Dev. Library by Global Technologies	195	Call
Tom Rettig's Library	100	80

GRAPHICS

dBASE Graphics for C by Ashton-Tate	80	69
Flipper by Pro Works	195	182
Omnigraf by EZ Soft	150	137
Silver Paint Library by SilverWare	100	90

QUERIES

dQuery by QUADBASE	100	Call
ELLIE by ELFSOFT	189	172
Friendly Finder by Proximity	99	90
Seekit by IDT	100	90

REPORT GENERATORS

dNPL/Reporter by Data Base Appl.	90	80
Focus Report Writer by Information Builders	349	299
QuickReport by Fox & Geller	295	131
R&R by Concentric Data Systems	150	139
Snow Report Writer by Snow	695	632

SCREENS / MENUS / DATA ENTRY

Face It by Black & White	99	90
Flash-up by Software Bottl'g	89	80
Flash-up ToolBox	49	45
HI-SCREEN XL by Softway	149	129
HiLite by Software Enhancement	100	90
Menu-Maker by Alamo Systems	50	45
Quick Entry by Fox & Geller	99	90
Say What! by The Research Group	50	40

TRANSLATORS / BRIDGES

	List	Ours
CEnglish by MHT	\$ 495	452
dB2C by Software Connection	299	272
DB12III by Triple C Software	149	137
dBK III by Lattice	250	172
dBK III PLUS	750	599
db/LIB by AJS Publishing	139	121
dBx Translator by Desktop Ai	550	469
DEJA! by PC Publishing	100	90
dONETwoTHREE by Communication Horizons	149	131
Gen-to-Clip by Computer Crossroads	89	80
Gen-to-Quick	89	80
Genifer Solutions by Sof-Solutions	95	80
PC Converter Plus by SoftSync	80	75
R:Bridge (System V) by Synchronicity Research	450	429

ADDITIONAL PRODUCTS

101 Utilities for dBASE by MicroPac	70	60
Applications Plus by Fox & Geller	499	279
Assist Plus by Baker Street	100	90
dBlaizer by Centra Software	80	Call
dBKit by DataSoft	150	137
dB ONLINE by Sof-Solutions	50	45
dB PowerPak III by Gryphon	100	90
db TOOLby Comtel	69	60
dSALVAGEby COMTECH	100	90
DUTIL III PLUS by Fox & Geller	149	121
Flash Tools! by Avis-Hill	69	60
Fox Tool Box by Buzzwords	295	267
Opt-Tech Sort by Opt-Tech DP	149	105
PolyDesk III by POLYTRON	99	79
PolyDesk Max Pac	199	159
QuickPak by Fox & Geller	99	80
SCAN-A-LYZER by Tech III	50	45
Squish by Sundog Software	79	70

DEBUGGERS

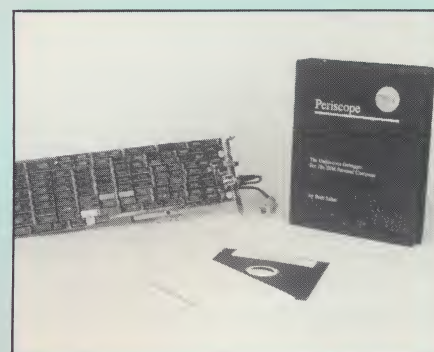
386DEBUG by Phar Lap	195	157
Advanced Trace-86 by Morgan	175	121
Breakout by Essential	125	89
CodeSmith-86 by Visual Age	145	101
C-SPRITE by Lattice	175	121
DSD87 by Soft Advances	125	80
Periscope I	345	282
Periscope II	175	141
Periscope II-X	145	106
Periscope III 8 MHz	1,095	899
Periscope III 10 MHz	1,195	979
Pfix86plus by Phoenix	395	215
Softprobe II/TX by Systems & Software	750	699
T-Debug PLUS 4.0 by Turbo Power w/ source code	45	39
TURBOsmith by Visual Age	99	80
XVIEW86 by McGraw-Hill	60	50

PERISCOPE

Choose a Periscope
debugging system to fit
your needs!

Periscope's software is solid, comprehensive and flexible. Debug your programs thoroughly and efficiently. Periscope is the answer for debugging device-drivers, memory-resident, non-DOS and interrupt-driven programs. It provides source and/or symbol support for programs written in high-level languages and assembler. Periscope's hardware adds the power to solve really tough debugging problems.

The break-out switch lets you break into the system any time. You can track down a bug instantly, or just check what's going on, without having to reboot or power down and back up. Very useful when your system hangs! The switch is included with Periscope I, II and III. Periscope I has a board with 56K of write-protected RAM. The Periscope software resides in this memory, safe from runaway programs. DOS memory, where debugger software would normally reside, is freed up for your program. Periscope III has a board with 64K of write-protected RAM, which performs the same functions as Periscope I. The Periscope III board adds another powerful dimension to debugging...its hardware breakpoints and real-time trace buffer help you track down bugs that a software-oriented debugger would take too long to find, or can't find at all!



PERISCOPE

DESKTOP PUBLISHING

	List	Ours
HALO DPE by Media Cybernetics	\$195	162
MKS SQPS by Mortice Kern Sys.	495	473
Pagemaker by Aldus	695	532
Ventura Publisher by Xerox	895	554

BACKPAK

BACK IT UP.

Now there's a back-up and restore package with the ability to second guess and double check. Unlike most back-up software, BACKPAK copies files to floppy diskettes in standard DOS format, permitting access to files directly. After initial back-up, BACKPAK copies only files that are new or modified for faster operation during repeated back-ups. It even tells you how many disks it will take! BACKPAK saves time and money with automatic error checks on hard disks, floppy disks, automatic disk labeling and verification. You can rest assured that BACKPAK works for even the most inexperienced user.

CALIFORNIA
SOFTWARE
PRODUCTS, INC.

DISK UTILITIES

BACKPAK by California Software	\$ 99	90
Back-It by Gazelle Sys	129	120
Bernoulli Back-It	129	120
Bookmark Plus by Intellisoft	180	161
Disk Optimizr by Softlogic Sys.	60	55
FASTBACK by Fifth Generation	159	111
FASTBACK Plus	189	142
Fast Forward by Mark Williams	70	60
hTest hFormat by Paul Mace	90	80
Intelligent Backup (IB) by Sterling Software	150	137
MACE Utilities by Paul Mace	99	90
Norton Utilities	100	61
by Peter Norton Computing		
Norton Utilities Advanced	150	101
Pathminder by Westlake Data	70	65
PC/Tools Deluxe by Central Point	80	70
Pdisk by Phoenix	145	105
Vcache by Golden Bow Systems	50	47
Vfeature by Golden Bow Systems	80	75
Vfeature Deluxe	120	111
Vopt by Golden Bow Systems	50	47

Command Plus

The Most Powerful MS-DOS Command Processor Available!

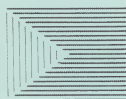
Increase your speed, productivity and ease of programming by taking command of your programming environment with Command Plus V.2.1.

New features of V.2.1 include: 3Com and Novell Network compatible; Command line variable expansion control; and DIR, COPY, and DEL now allow relative date/time specifications, input file lists, and input from STDIN.

Key features include:

- * Command recall using cursor keys.
- * Command aliases with replaceable parameters.
- * Interactive command line editing.
- * Regular expression file specifiers.
- * BROWSE, a full-screen file viewer.
- * On-line help.
- * MOVE command.
- * TSR compatible.
- * 140+page user's manual.
- * Unlimited telephone support.

Included is SCRIPT, a new batch processing language that is an easy to learn programming environment. SCRIPT lets you write your own utilities to meet the specific needs of your working environment or create custom front ends for end-users. SCRIPT also supports nested script files.



ESP
SOFTWARE SYSTEMS INC.

DOS UTILITIES

	List	Ours
California Ten Pack by Calif. Soft.	\$ 99	90
Command Plus by ESP Software	80	70
Cubit by Softlogic Sys.	50	45
DESQview by Quarterdeck	130	115
Double DOS by Softlogic Sys.	50	45
FANSI-CONSOLE by Hersey Micro	75	66
Fetch by Thought Dynamics	55	49
HELP ME by California Software	99	90
Learning DOS by Microsoft	50	40
MKS Toolkit by Mortice Kern Sys.	139	119
Norton Commander by Peter Norton Computing	75	56
Q-DOS II by Gazelle Systems	70	60
Quaid Analyzer	99	90
Scroll and Recall by Opt-Tech DP	69	60
Software Carousel by Softlogic	80	70
Taskview by Sunny Hill	80	56
TopDOS by FrontRunner	70	60
X-Tree by Exec. Sys.	70	60
X-Tree Pro	129	111
XENOCOPY-PC by Xenosoft	80	70

DOCUMENTATION AIDS

	List	Ours
C Beautifier by POLYTRON	\$ 50	45
C:LINEs/c:Tree by Softrex	60	55
Documotion by NWP	160	141
FLOW CHARTING II by Patton & Patton	229	207
NS CHARTS by Siltronix	450	408
Source Print by Aldebaran Labs	97	80
Tree Diagrammer by Aldebaran Labs	77	70

FETCH

Can't find a file? Fetch will find it for you instantly.

Any time you save a file, Fetch asks you for a description of up to three lines of text! So if you can't find a file Fetch searches your descriptions at lightning speed. Fetch can read over 4000 descriptions in less than 60 seconds! No keywords are needed as Fetch reads the entire description eliminating the need for special search characters or logic. Even spelling doesn't matter. No indexing is required.

Instant Notes. Turn your notes into a powerful, personalized instant database. You can enter or access any time you like. Just type in a word or phrase and Fetch will find the note you wanted.

Greek/Math Characters. Do you use Greek/Math characters? Pop-up Fetch's Greek/Math table! Point to the character you want and shoot it into your word processor. These characters can also be entered into a file description or note, which can be imported into your word processor at a later time. For engineers and scientists Fetch can become an intelligent database for formulas!



THOUGHT
DYNAMICS

EDIX

A full screen text editor designed for programmers, writers and other professionals who require both power and flexibility.

EDIX can handle any editing job from the simple to the most complex. The features which set EDIX apart from ordinary editors include:

- * Subprocess execution with standard output capture.
- * Operating System Windows.
- * Error recovery.
- * On-line help screens and on-line tutorials.
- * Keystroke record and playback.
- * Multiple windows and buffers.
- * Versatile search and translate commands.
- * Unlimited keyboard redefinition.

EDIX is one of the most powerful editors on the market today and is easy to learn. The program comes with two on-line tutorials and an on-line help facility.

EDIX runs under the MS-DOS /UNIX/XENIX operating systems.

EMERGING
TECHNOLOGY

EDITORS

	List	Ours
BRIEF by Solution Systems	\$195	Call
w/ dBRIEF	275	Call
dBRIEF	95	Call
CVUE w/ source code by Lattice	250	199
EC by C Source	65	60
EDIX by Emerging Technologies	195	169
EMACS by UNIPRESS	295	268
w/ source code	995	899
Epsilon by Lugaru Software	195	151
FirsTime (C) by Spruce Tech	295	232
KEDIT by Mansfield	125	101
LSE by Lattice	125	101
Microsoft Word	450	285
micro/SPF by Phaser Systems	175	142
MKS Vlb by Mortice Kern Sys.	75	66
Multi-Edit by American Cybernetics	99	90
Norton Editor	75	70
by Peter Norton Computing		
PC/EDT+	295	269
by Boston Business Computing		
PI by The Iliad Group	195	165
Pmate by Phoenix	195	115
SPF/PC by Command Technology	245	185
VEDIT PLUS by CompuView	185	131
XTC by Wendin	99	80

EQUATION SOLVERS

	List	Ours
Eureka: The Solver by Borland	\$167	119
MathCAD by MathSoft	395	282
SolveIt by Structured Scientific	79	75
Solver-Q by SDDC	79	70
TK Solver Plus	395	382
by Universal Tech. Sys.		

FORTH LANGUAGE

CFORTH	200	161
by Laboratory Microsystems (LMI)		
Forth/83 Metacompiler by LMI	750	599
HS/FORTH by Harvard Softworks	395	362
MMS Forth by Miller Micro.	180	161
Master Forth by Micromotion	125	116
PC/Forth by LMI	150	111
PC/FORTH +	250	199
Programmer's Package #1	250	199
Programmer's Package #2	350	282
Programmer's Package #3	500	399
UR/Forth by LMI	350	282
UR/Forth Libraries	500	399

FORTRAN LANGUAGE

COMPILERS

F77L-EM/16 by Lahey Computer	695	629
F77L	477	439
FORTRAN 77 by Digital Research	350	319
Lahey Personal FORTRAN 77	95	86
Microsoft FORTRAN	450	285
NDP FORTRAN-386 by Microway	595	549
Prospero FORTRAN	199	179
RM/FORTRAN by Ryan-McFarland	595	479
WATFOR FORTRAN by Watcom	375	337

LIBRARIES

87 SFL by Hauppauge	250	227
Extend by Design Decisions	150	131
FORTLIB by Sutrasoft	125	111
Magus Numerical Analyst	295	252
MathPac by Systolic	495	445
No Limit by MEF Environmental	129	116
SSP/PC by Lattice	350	272

GRAPHICS

Essential Graphics	299	229
w/ source code	598	509
GRAFLIB by Sutrasoft	175	170
GRAFPLUS by Jewell	50	45
Grafmatic by Microcompatibles	135	119
GSS Graphic Dev. Toolkit	495	399
by Graphic Software Systems		
HALO '88 by Media Cybernetics	325	229
MetaWINDOW by Metagraphics	195	162
MetaWINDOW/PLUS	275	232
PLOTHI by Sutrasoft	175	159
PLOTHP by Sutrasoft	175	159
Plotmatic by Microcompatibles	135	119
TEKMAR Graphics Library	195	169
by Advanced System Consultants		

FILE MANAGEMENT

Btrieve by Novell	245	185
Btrieve/N	595	455
FABS Plus by Comp. Control Sys.	195	172
Xtrieve by Novell	245	189
Report Option	145	109
XQL by Novell	795	599

Lahey

The FORTRAN Specialists

F77L FORTRAN LANGUAGE

SYSTEM. F77L has consistently been rated the top PC FORTRAN by many programmers. Selected the "Editor's Choice" by PC Magazine and chosen as the #1 FORTRAN by BYTE Magazine.

For developing or porting, there is no substitute for a Lahey compiler. Features includes: Full implementation of the ANSI 77 Standard, popular mainframe extensions for the downloading of programs, fast compilation to reduce development time, Source On-Line Debugger (SOLD) which does not require recompiling or relinking and is only 22K, concise English diagnostics and warning messages that are easy to understand, Logical*1, Logical*4, Integer*4, Real*4, Real*8, Complex*8, Complex*16, Recursion, NAMELIST, 31 Character Names, Trailing Comments, Cross Reference and Source Listing.

Personal FORTRAN 77.

Created for programmers who need a powerful compiler but do not need to write programs larger than 64K.

Features include:

Full implementation of the ANSI 77 Standard, fast compilation to reduce development time, Source On-line Debugger (SOLD). Concise English diagnostics and warning messages that are easy to understand. Optional Toolkit includes productivity enhancers such as break handling, system subroutines, I/O subroutines and many others.

Lahey Personal FORTRAN comes with a 300 page user manual with the 77 Language extensions highlighted.

Lahey
Computer Systems Inc.

SCREENS / WINDOWS

	List	Ours
I/O PRO by MEF Environmental	\$149	129
I/O PRO w/ No Limit Library	250	229
PANEL by Lifeboat	295	215
SPINDRIFT Library	149	135

HALO '88

HALO '88 is an advanced version of HALO, the popular library of graphics subroutines. It provides the software developer with a rich environment of graphics functions and with reliable, well-documented tools to facilitate the development of contemporary applications such as Desktop Publishing, Document Management, Vision, and Imaging.

HALO consists of over 190 subroutines and now supports 18 programming languages. New hardware support for the IBM PS/2, 43 graphics adapter boards, 20 printers and 11 scanners brings the total number of supported devices to 144. New language bindings include Turbo Pascal V4.0, Turbo BASIC V1.0, Turbo C V1.0, Microsoft QuickBASIC V4.0 and Microsoft Macro Assembler V5.0.

Subroutines are provided in the following categories: Drawing Commands; Viewport, Window and Coordinate Control; Text Functions; Metafile Functions; Image Movement and Compression; Device Management; Cursor Control; Scanner Locator and Printer Control; and Image Input.

HALO '88 is also source code compatible with previous versions of HALO so that current users can take advantage of HALO '88's dramatic enhancements.

HALO™

OTHER PRODUCTS

	List	Ours
DIAGRAM'er by Impulse	\$129	116
DOCUMENT'er by Impulse	129	116
DIFF-E-Q by MicroCompatibles	495	448
FORTTRAN Addenda	165	139
by Impulse Engineering		
FORTTRAN Addendum	95	85
MS OS/2 Programmer's Toolkit	350	229
Source Print by Aldebaran Labs	97	80

LINKERS / LIBRARIANS

	List	Ours
Plink86plus by Phoenix	\$ 495	279
Plib by Phoenix	195	149
OPTLIB by SLR Systems	49	45
PolyLibrarian I by POLYTRON	99	90
PolyLibrarian II	149	131

Plink86plus

Linkage editor with advanced overlay capabilities.

Plink86plus handles any compiler or assembler producing standard Intel or Microsoft OBJ files, including COBOL, FORTRAN, Lattice C, C86, Microsoft/IBM languages, and mbp/COBOL. Virtual memory management ensures ample capacity for symbol and common block names (nearly 33,000). Plink86plus supports unlimited size files and number of modules and up to 4,095 overlays nested up to 32 deep. Merges object modules, caches overlays in extended or expanded memory and automatically reloads overlays upon function return. Includes Plib86 object library manager.

Phoenix

MODULA-2

LOGITECH Modula-2		
Compiler Pack	\$ 99	81
Development System	249	199
Toolkit	169	141
Window Package	49	40
Run Time Debugger	299	232
Repertoire by PMI	89	76
Solid B+ Toolbox	100	89
by Advanced Systems Consultants		
w/ source code	150	136
Stony Brook Modula-2		
Compiler package	195	179
Development package	345	309

1-800-445-7899
In NY: 914-332-4548

Solid B+ Toolbox

With this lightning fast database toolbox for Modula-2, you can build top-notch database applications quickly and easily.

Using advanced B+ -tree file structures, this toolbox gives your application programs unmatched keyed-file accessing performance. Includes a full set of database management functions for quickly adding, deleting, updating and searching index and data files. Fixed and variable length data records, duplicate keys and multiple indexes are supported. Includes a virtual memory Quicksort that is not limited by available memory and can sort any data using single or multiple keys in ascending or descending order. Every aspect of the Solid B+ Toolbox is covered thoroughly in the 175-page bound manual with complete examples. Free sample database applications are provided on disk. Not copy protected.

- * B+ tree indexes for efficient random and sequential retrieval.
- * Memory caching (buffering) of indexes for fast access.
- * Manages huge index and data files (up to four gigabytes).
- * Fixed and variable length data records.
- * Permits duplicate keys.
- * Many extras including a direct screen video module with EGA 43-line support.



Solid Software, Inc.

Programmer's
Paradise™



Smalltalk/V

Smalltalk/V is a complete personal environment for object-oriented programming.

Smalltalk/V is an ideal tool for solving both simple and complex problems on a PC. It includes:

- † A robust, high-performance, production quality object-oriented programming environment.
- † Advanced user interface featuring windows, pop-up menus and optional mouse.
- † A set of tools for organizing and browsing the Smalltalk source code.
- † An incremental program development capability.
- † Comprehensive bitmap graphics with optional color support.
- † Full compatibility with the new IBM PS/2 hardware as well as existing PC and AT compatibles.

Smalltalk/V 286 This new version is designed to operate in protected mode under both OS/2 and DOS. It contains its own DOS extender and can address up to 16M bytes of memory for developing large and complex programs. Smalltalk/V 286, a multiwindow development environment that contains a rich review class library, includes predefined objects-such as strings, arrays, dictionaries, windows and menus-that can be used together to build an application.

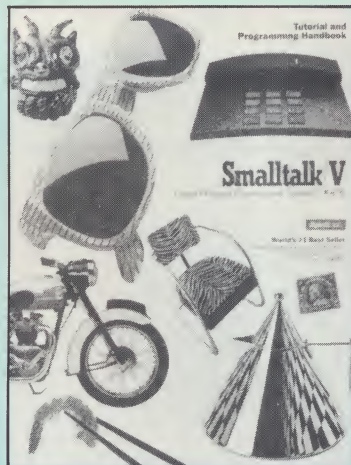
EGA/VGA Color Extension Pack. This pack integrates full EGA and VGA color capabilities with Smalltalk/V's environment.

Communications Application Pack. This pack is the communications software companion for Smalltalk/V. It connects your PC running MS-DOS to a remote computer with a possibly different operating system environment such as UNIX.

Goodies Application Pack #1. This pack allows you to handle applications that require discrete event simulation, forward-chaining inference operations or connection to external sensors and instrumentation.

Goodies #2. This pack provides a spelling checker as well as floating point emulation.

Goodies #3. This pack provides an application browser and a neural network.



OBJECT-ORIENTED PROGRAMMING

	List	Ours
ACTOR by Whitewater Group	\$495	423
ADVANTAGE C++ by Lifeboat	495	479
C-talk by CNS	150	137
PforCe++ by Phoenix	395	215
Smalltalk/V by Digital	100	85
Communications	50	45
EGA/VGA Color Extension	50	45
Goodies #1	50	45
Goodies #2	50	45
Goodies #3	50	45
Smalltalk/V 286	200	169

PforCe++

Reduce your C++ development time.

A comprehensive function library, PforCe++ provides essential tools for object-oriented programming with C++. Speeds development time and ensures cleaner, more maintainable programs. You can build entire systems with a minimum of new coding.

Over 400 easy-to-use functions

including windowing, database, B-trees, field editing, menus, communication, table hashing/parsing, string/file handling and time/date calculations. PforCe++ was written in C++ and with source code included, it doubles as a tool for learning the C++ language.

Phoenix

OPERATING SYSTEMS

	List	Ours
Concurrent DOS 386 by Digital Research	\$395	349
Microport:		
System V/AT (complete)	649	549
AT RunTime System	249	209
AT Software Dev. System	299	249
AT Text Preparation System	199	169
AT Unlimited User Upgrade	249	209
286 DOS Merge	249	209
System V/386 (complete)	899	759
386 RunTime System	299	249
386 Software Dev. System	549	465
386 Text Preparation System	199	169
386 Network Services Extension	199	169
386 Unlimited User Upgrade	299	249
386 DOS Merge	399	349
PC-MOS 386 by The Software Link		
1 User	195	181
5 Users	595	553
25 Users	995	899

Microport System V

UNIX for the 80386 PC or IBM PC/AT

Get multi-user, multi-tasking performance today with your 80386 PC or PC/AT and Microport's UNIX System V Release 3, the real UNIX developed by AT&T and Intel and enhanced and extended by Microport.

System V/AT:

- * Runs in protected mode.
- * Up to 17 users per machine.
- * Record and file locking.
- * Virtual consoles.
- * Dynamic stack growth.
- * Full support of the 80287.
- * PC-DOS partitioning.

System V/386 delivers almost unlimited speed and power. Runs in protected mode and supports four gigabytes and an unlimited number of users.

Other product offerings for both System V/AT and System V/386 include:

- * The Runtime Package which contains over 200 utility programs.
- * The Software Development Package which includes the AT&T 286 C compiler, F77 FORTRAN compiler and symbolic debugger.
- * The Text Processing Package which consists of the complete System V, Release 2 Documenters Workbench.


MICROPORT

SCO:	List	Ours
XENIX System V (complete)	\$ 1,295	999
Development System	595	479
Operating System	595	479
Text Processing Package	195	149
386 XENIX Sys. V (complete)	1,495	1,195
386 Development System	695	589
386 Operating System	695	589
386 Text Processing Package	195	149
VP/IX (2 users)	495	399
VP/IX (unlimited users)	995	799
XENIX for IBM PS/2 Model 80:		
386 XENIX Sys. V (complete)	1,695	1,359
386 Development System	795	679
386 Operating System	795	679
386 Text Processing Package	195	169
Wendin:		
Operating System Toolbox	99	80
PCNX	99	80
PCVMS	99	80
Wendin-DOS	99	80
Wendin-DOS Application Dev. Kit	99	80

Microsoft Pascal/4.0

Now enhanced to support
MS OS/2 and including
CodeView

Microsoft Pascal compiler version 4.0 is a powerful systems development environment with all the features you need to create code that's readable, modular and transportable. Its structured nature, system extensions, convenient procedural mechanisms and rich variety of data types make it ideal for solving complex problems quickly. And with the fast, efficient native code produced by Microsoft compiler, your programs will execute quickly, too.

With Microsoft Pascal/4.0 you can:

- * Break the 640K barrier.
- * Cut debugging time with CodeView.
- * Compile any standard ISO or ANSI program.
- * Link and edit with greater efficiency with the new linker and Microsoft's new programmable editor that are included.
- * Meet target requirements with your choice of math options.
- * Mix languages for greater efficiency with Microsoft's interlanguage calling capability.

Microsoft®

PASCAL LANGUAGE

COMPILERS

	List	Ours
ADVANTAGE 386 Pascal by Lifeboat	\$ 895	839
Marshal Pascal by Marshal	189	159
Microsoft Pascal	300	189
Pascal-2 by Oregon Software	229	Call
Professional Pascal by MetaWare	595	549
Professional Pascal 386	895	839
Prospero Pascal	199	179
Turbo Pascal by Borland	100	69
Turbo Pascal Developer's Library	395	289

LIBRARIES

MACH 2 by MicroHelp	79	60
Pascal ASYNCH MANAGER by Blaise	175	137
Pascal TOOLS / TOOLS 2 by Blaise	175	137
Turbo.ASM by BCSof	99	70
Turbo Advantage by M&T Publ'g	50	45
Turbo Advantage Complex	90	80
Turbo ASYNCH PLUS by Blaise	129	101
Numerical Methods Toolbox by Borland	100	69
Turbo POWER TOOLS PLUS by Blaise	129	101
Turbo Professional by TurboPower Software	99	80

GRAPHICS

Drawbridge by Courseware	129	111
HALO '88 by Media Cybernetics	325	229
MetaWINDOW by Metagraphics	195	162
MetaWINDOW/PLUS	275	232
Turbo Geometry Library by Disk Software	100	90
Turbo Graphix Toolbox by Borland	100	69
TurboHalo by IMSI	95	80
TurboWINDOW/Pascal by Metagraphics	95	80
Universal Graphics Library by Quinn-Curtis	150	121

FILE MANAGEMENT

Btrieve by Novell	245	185
Btrieve/N	595	455
FABS Plus by Comp. Control Sys.	195	172
System Builder by Royal American	150	131
IMPEX	100	90
Report Builder	130	116
Turbo Database Toolbox by Borland	100	69
Xtrieve by Novell	245	189
Report Option	145	109
XML by Novell	795	599

Microsoft OS/2 Programmer's Toolkit

New OS/2 Programmer's Toolkit provides utilities to help develop OS/2 applications. It contains three reference manuals on OS/2, totaling more than 900 pages, and a host of software utilities that allow applications to take advantage of the advanced features of MS OS/2. Includes two free hours of supports via Microsoft's electronic-mail product support system.

Utilities include:

* **BIND.** Use of this utility results in a single executable file that runs in both environments. Under OS/2, these applications have access to OS/2's virtual memory -- up to 128M bytes.

* **API.LIB.** Used in conjunction with BIND, this library contains the functions for family API applications.

* **IMPLIB.** This utility helps developers create dynamic link libraries (DLLs). DLLs provide a mechanism for linking libraries of routines to applications at execution time.

Microsoft®

SCREENS / WINDOWS

	List	Ours
ASCII Turbo Ghost Writer		
Starter	\$ 99	80
Complete	289	262
Flash-up by Software Bottling	89	80
Flash-up ToolBox	49	45
Pascal VIEW MANAGER by Blaise	275	199
screenplay (MS Pascal) by Flexus	150	131
screenplay (Turbo Pascal)	100	80
Screen Sculptor by Software Bottl'g	125	96
Turbo Advantage Display by M&T Pub.	70	65
TurboMAGIC	99	90
by Sophisticated Software		
Turbo POWER SCREEN by Blaise	129	101

1-800-445-7899
In NY: 914-332-4548

Programmer's
Paradise™



OTHER PRODUCTS

	List	Ours
Azatar DOS Toolkit	\$ 99	86
ALICE by Software Channels	95	70
DOS/BIOS & Mouse Tools by Quinn-Curtis	75	70
FirstTime by Spruce Technology	75	60
MetaByte Data Acq. Tools by Quinn-Curtis	100	90
MS OS/2 Programmer's Toolkit	350	229
Pascal Helper by Modula Software	80	75
Overlay Manager by Turbo Power w/ source code	45	39
Science and Engin. Tools by Quinn-Curtis	75	69
T-Debug PLUS 4.0 by TurboPower Software w/source code	45	39
Turbo Analyst by Turbo Power	90	79
Turbo Editor Toolbox by Borland	75	59
Turbo Power Utilities by TurboPower	100	69
Turbo Plus by Nostrodamus	95	80
Turbo Tutor by Borland	100	89
	70	45

PROFILERS

Codesifter by David Smith	119	85
Pfinish by Phoenix	395	215
The PROFILER by DWB	125	89
The WATCHER by Stony Brook	60	55

Pfinish

Fine-tune your software product.

Pfinish identifies inefficient or unnecessary sections of code that need to be rewritten for maximum performance. It analyzes your program during execution, producing reports and histograms that give a snapshot of which routines were reached, their callers, how many times each is executed, how much time is spent in each, how many instructions are executed in each and more. Histograms and tabular reports, sorted by address or symbol, may be written in any page width or height, to a file, the console, or the printer. Pfinish, unlike other "profilers", can use symbol table information to produce much more meaningful analysis on overlays and interrupts.

Phoenix

PROTOTYPING

	List	Ours
C-Scape by Oakland Group	\$ 299	282
Dan Bricklin's Demo Program by Software Garden	75	60
Dan Bricklin's Demo Program II	195	179
Dan Bricklin's Demo Tutorial	50	45
DMS Screen Master by American Software Int'l.	200	185
Instant Replay by Nostradamus	150	131
Screen Machine by MicroHelp	79	60
/*resident C*/ by Essential w/ source code	99	85
	198	169

/*resident_C*/

Finally! You can write your C program and we make it resident.

No strings attached. You want to process interrupts? No problem. /*resident_C*/ is a set of C functions that enable you to process interrupts and/or make your programs "terminate stay resident" like Sidekick. We've done the research, testing, and grunt work to make your TSR programs safe, compatible and easy. Be aware of the "ifs, ands or buts" when writing interrupt handling software. Only /*resident_C*/ has all that you need to write reliable interrupt handlers without the worries. Our manual is educational because we tell you exactly what we are doing. The working demos give you clear examples of resident programs.

No royalties and source code is available.



REFERENCE GUIDES

Norton On-Line Programmer's Guide by Peter Norton	\$ 100	75
w/ additional language	150	109
Resident Expert by Santa Rita	60	55
Resident Expert for Quick or Turbo	40	35

BABY/36

An RPG II environment designed for the IBM PC/XT/AT and PS/2. BABY/36 enables RPG II programs to be developed, modified and executed in a format compatible with the IBM System/36. These programs can function as completely stand-alone or in conjunction with your minicomputer.

BABY/36 includes an Operation Control Language Processor, Screen Format Generator, Source Entry Utility, Sort Utility, RPG program Control, Data Exchange Utility, Screen Design Aid, a Data File Conversion to interface with Lotus 1-2-3 and the support of IBM's PC Networking, making the product parallel in almost every respect to the System/36 it is designed to emulate.

If you are currently using a System/36, BABY/36 may be used to increase its effectiveness. Use your existing application software to run autonomously on your PCs at remote or smaller sites. Save communication costs by using BABY/36 on a PC at a remote location and transmit data only at the end of the day. Use BABY/36 to off-load any application or data files from an overloaded System/36. Or use the BABY/36 as a stand-alone.

The combination of BABY/36 and a LAN will significantly outperform a minicomputer in most cases.

CALIFORNIA
SOFTWARE
PRODUCTS, INC.

RPG LANGUAGE

	List	Ours
Baby/36 by California Software	\$ 3,000	2,699
w/ DataFile Utility	3,500	3,149
Automated Conversion Sys.	750	699
Lattice RPG II Development Sys.	1,400	1,199
RPG II Compiler	750	633
Screen Design Aid	350	312
Source Entry Utility	250	199
Sort/Merge Utility	250	199

SMALLTALK LANGUAGE

	List	Ours
Smalltalk/V by Digitalk	\$ 100	85
Communications	50	45
EGA/VGA Color Extension	50	45
Goodies #1, #2 or #3	50	45
Smalltalk/V 286	200	169

Opt-Tech Sort

High Performance Sort/Merge/Select Utility

Opt-Tech Sort is a high performance Sort/Merge/Select utility. It can read, sort and write a file faster than most programs can even read the data. Example: 1,000 records of 80 bytes can be read, stored and a new file written in less than 10 seconds (IBM/XT).

Opt-Tech Sort can be used as a stand-alone program or called as a subroutine from over 30 different programming languages. All the sorting, record selection and reformatting facilities you need are included. A partial list of features includes the ability to process files of any size. Numerous file types are supported including Sequential, Random, Delimited, Btrieve, dBASE II & III and many others. Up to 10 key fields can be specified (ascending or descending order). Over 16 different types of data supported.

Powerful record selection capability allows you to specify which records are to be included on your output. Record reformatting allows you to change the structure of your output record and to output special fields such as record numbers for use as indexes.



PVCS

The fastest and most flexible source code control system.

PVCS is the leading Configuration Management system for projects developed on PCs, PC Local Area Networks or VAX computers. PVCS simplifies configuration management by providing functions in five key areas: Management Control, Security and Access Control, Version Control, Project Reporting and integration with PolyMake, the leading make utility from POLYTRON. PVCS maintains a history of revisions to a source document and allows prior versions of individual modules or entire projects to be recreated very quickly. The source document can be any file, which means program source code, libraries and project documentation can all be stored and maintained in a central project database on the file server.

PC Tech Journal (9/87) says *"...PVCS provides everything necessary to a multiprogrammer project -- more than any other package reviewed."*

3Com and Novell have standardized on PVCS for their own product development efforts. Boost the productivity of managers and programmers and improve overall software quality with the source code control product that the leading software publishers, aerospace, manufacturing and service companies rely on.



High Quality Software Since 1982

SOURCE CODE MAINTENANCE & TESTING TOOLS

	List	Ours
ADVANTAGE VCMS by Lifeboat	\$ 379	339
ADVANTAGE Make by Lifeboat	125	99
C Cross Reference Generator by Lattice	59	40
CapBak by Software Research	575	Call
Lugaru Make by Epsilon	69	Call
LMK by Lattice	195	141
MKS RCS by Mortice Kern Sys.	189	162
Pmaker by Phoenix	195	85
PolyMake by POLYTRON	149	131
PVCS (Corporate) by POLYTRON	395	332
PVCS (Personal)	149	131

	List	Ours
PVCS (Network)	\$ 1,000	Call
S-TCAT by Software Research	675	Call
Seidl Make Utility	100	90
Seidl SMKgen	50	45
Seidl Version Manager	300	269
Network version	1,000	849
SET:DIFS by H & S Associates	139	126
SET:GXREF	79	70
SET:PATCH	79	70
SET:SCIL	349	318
Smarts by Software Research	475	Call
Source Tools by Oregon Software	595	499
TCAT by Software Research	975	Call
TD GEN by Software Research	300	Call
Text Mgmt Utilities by Lattice	120	90
TLIB by Burton Systems	100	90

SMKgen

SMKgen is a new companion utility that works with the Seidl Make Utility (SMK). By looking at the timestamps on all of the files that make up a software product and by examining the dependencies and build directives that reside in a user written "dependency file", SMK automatically constructs that product using the minimum number of steps necessary. Now, with SMKgen, the dependency file is constructed automatically, reducing a user's software development time even further.

SMKgen knows about header files, source files, object files, libraries, executable files and the relationships that exist between them. This knowledge enables SMKgen to do consistency checking at the same time that it is building a dependency file.

With SMKgen, the construction phase of the software development cycle is reduced dramatically and the task of placing an existing software project under SMK is reduced to executing a single command.

SEIDL COMPUTER ENGINEERING

SORT UTILITIES

	List	Ours
AutoSort by Comp. Control Sys.	\$ 150	131
Microsoft Sort	195	130
Opt-Tech Sort by Opt-Tech DP	149	105
Sortex by Systemat	99	90

TRANSLATORS

	List	Ours
Bas_C (Economy) by GOTOLESS	\$199	179
Bas_C (Commercial)	375	323
Bas_Pas (Economy)	149	129
Bas_Pas (Commercial)	280	242
BASTOC by JMI	495	399
BASTOC (BASICA VERSION)	795	644
Brooklyn Bridge by White Crane	130	Call
dB2C by Software Connection	299	272
dBx TRANSLATOR by Desktop Ai	550	469
PTRAL by Woodchuck	179	162

ADDITIONAL LANGUAGES

PL_1 86 by Digital Research	750	689
Personal Rexx	125	101
by Mansfield Software		
The Weiner Shell	299	253
by Gryphon Microproducts		

PC-lint

A diagnostic facility for C.

Finds bugs, glitches and inconsistencies that your compiler, working on one module at a time, will miss. Supports full K&R C language, ANSI C extensions and Microsoft and Turbo keywords.

Use PC-lint to find inconsistent declarations, argument/parameter mismatches, uninitialized variables, unaccessed variables, variables assigned but not used, suspicious macros, indentation irregularities, function inconsistencies, unusual expressions and more. Checks printfs and order of evaluation. Fully customizable: all error messages can be selectively inhibited; size of scalars can be altered (for porting); four memory models; error messages format can be adjusted; etc. Comes with user modifiable library-description files for 12 major compilers and a generic file.

GIMPEL SOFTWARE

UNIX / VMS UTILITIES for DOS

	List	Ours
Curses by Lattice	\$125	86
MKS AWK by Mortice Kern Sys,	75	66
MKS RCS	189	162
MKS Toolkit	169	145
MKS VI	75	66
PC-lint by Gimpel	139	101
PolyShell by POLYTRON	149	131
Pre-C by Phoenix	295	159
Text Mgt. Utilities by Lattice	120	90
VCL by Boston Business Comp.	195	177

XENIX / UNIX SOFTWARE

OPERATING SYSTEMS

SCO XENIX System V (comp.)	1,295	999
SCO 386 XENIX Sys. V (comp.)	1,495	1,195
Microport System V/AT (comp.)	649	549
Microport System V/386 (comp.)	899	759

LANGUAGES

ADVANTAGE C++ by Lifeboat	695	669
APL*PLUS by STSC	995	699
Basmark Basic (286)	595	539
Basmark Basic (386)	695	629
C-terp by Gimpel	498	384
Micro Focus Toolkit	2,495	1,999
Micro Focus VS/COBOL	1,495	1,199
Microsoft BASIC Compiler	695	449
Microsoft BASIC Interpreter	350	229
Microsoft COBOL	995	649
Microsoft FORTRAN	695	449
Microsoft Pascal	695	449
RM/COBOL by Ryan-McFarland	1,250	954
RM/COBOL-85 (286)	1,500	1,259
RM/COBOL (386)	1,900	1,589
RM/FORTRAN	750	553
UNIWARE 68020 C X-Compiler	995	899

SHELLS

Aspen Korn Shell	125	109
Directory Shell (286) by AMS	349	299
Directory Shell (386) by AMS	495	423
QuickShell by UNIPRESS	395	362

DATABASES / FILE MANAGEMENT

Btrieve by Novell	595	455
c-tree by FairCom	395	318
db_VISTA by Raima	Call	Call
FoxBASE+ (286) by Fox Software	795	599
FoxBASE+/386	895	679
Informix 4GL	1,500	1,349
Informix SQL	995	895
Informix ESQ/LC	749	675
Informix 4GL (286)	2,400	2,169
Informix SQL (286)	1,600	1,449
Informix ESQ/LC (286)	1,200	1,089
Informix 4GL (386)	3,400	3,079
Informix SQL (386)	2,200	1,989
Informix ESQ/LC (386)	1,650	1,489

EDITORS

PC/EDT+ by Boston Bus. Comp.	395	352
Epsilon by Lugaru	195	152
EDIX by Emerging Tech.	275	222
VEDIT PLUS by CompuView	285	Call

MKS Trilogy: for XENIX & Microport Users

MKS Trilogy provides
three essential
replacement utilities:

The MKS Korn Shell brings the full power of the Bourne shell and many popular features of the C shell together to create the most sophisticated user interface available for XENIX and Microport UNIX.

MKS AWK, fully compatible with the AWK programming language, by Aho, Weinberger, and Kernighan, provides powerful data retrieval and report generation facilities.

MKS crypt offers the encryption capabilities of both the NBS Data Encryption Standard (DES) and the UNIX-compatible Enigma rotor machine algorithm.

MKS Trilogy

SCREENS

	List	Ours
FORMAKER by JYACC	\$ 895	813
JAM by JYACC	1,350	1,224
Micro Focus FORMS-2	395	323
PANEL by Lifeboat	625	535
PANEL Plus by Lifeboat	795	675
SCO MultiView (286)	395	322
SCO MultiView (386)	495	399
Windows for C	595	479
by Vermont Creative		
Windows for Data	795	669
by Vermont Creative		

ADDITIONAL PRODUCTS

Lyrinx by SCO	595	499
Micro Focus VS/Animator	895	723
NETWORKS FOR XENIX by SCO	595	499
Opt-Tech Sort by Opt-Tech	249	227
REAL TOOLS by PCT	149	90
w/library source code	399	292
w/complete source code	499	373
SCO Professional	795	639

C-terp for XENIX

Not just a C interpreter but
a powerful professional
debugging and
development environment.

Full K&R C with ANSI extensions; a
full-screen, built-in reconfigurable
editor; incredibly fast semi-
compilation; complete multiple
module support; automatic make;
global search; trace and batch mode.

Link in assembler or C object
modules and libraries, including
curses. Debugging includes single-
step, step-across, display of arrays
and structures, exposed macros,
watch expression, watch condition,
sticky, temporary and cursor-
directed breakpoints and a leave
function command.

GIMPEL SOFTWARE

MACINTOSH SOFTWARE

	List	Ours
APL*PLUS by STSC	\$ 395	299
Aztec C68K/MAC-P Professional	199	159
Aztec C68K/MAC-D Developer	299	239
Aztec C 68K/MAC-Commercial	499	399
Aztec C Prime	75	59
B-tree Helper	75	69
by (M)agreeable Software		
Consulair 68000 Development Sys	80	69
Consulair MacC (Mac II)	600	499
Consulair MacC and MacC Toolkit	425	339
Consulair Mac C Jr.	80	59
Consulair Utilities	50	39
c-tree by FairCom	395	315
dBASE Mac by Ashton-Tate	495	329
Expertisp by Expertelligence	495	475
ExperProlog II by Expertelligence	495	475
Express Form by Evolutionary Comm.	95	79
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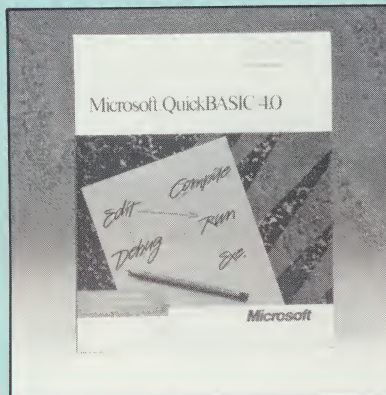
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